
BDR THERMEA
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Baymak
Turkey's power merged with world technology

Baymak, which has a long-standing past of 47 years, operates with two production plants a total of 60,000 m2 at Tepeören. Baymak, being one of the leading manufacturers in Turkey, has 1200 exclusive dealers, more than 2100 sales points and over 250 authorized services. Baymak, always aims to perform high-tech production with over 800 employees, has been incorporated 100 % under THERMEA Group Company as of 2013. BDR Thermea Group with more than $ 3 billion turnover and 7,000 employees by comprising of Baxi (England)- De Dietrich (France) and Remeha (Netherlands) companies and with production facilities in Turkey, England, Italy, Germany, France, Spain and the Netherlands, is a leading Netherlands company active in 70 countries as the 3rd giant group of Europe in the heating sector.

Baymak / BDR Thermea produce, export and import under the categories of heating, renewable energy, water heaters, cooling and water technology. It reaches to the consumers through combi boilers, condensing boilers, floor standing boiler, central heating boiler, panel radiators, towel radiators, valves and expansion tanks in the field of heating, and on the other hand with split air conditioners, free-standing type air conditioners and heat pumps in the field of air conditioning. It provides Baymak / BDR Thermea assurance to its users by the field of renewable energy with solar collectors, biomass boilers, biodiesel burners, photovoltaic systems, and through the field of water heaters and water technology with thermo-siphon, thermo-boiler, geyser, boilers, circulation pumps, submersible pumps, sewage pumps, self-priming multistage centrifugal pumps and hydrophore sets.

Our Mission

Baymak's mission: To contribute to the rising objectives of Turkey via the equipped staff with younger average of age and keeping its leadership in the heating-cooling sector that it serves through being backed by the technological power of BDR THERMEA.
To serve this mission, it aims to sustain its presence as a company that is competitive,
institutionalized, has investment power and giving quick and healthy reactions to the changes.

Our Vision

To carry our leadership from the borders of Turkey to the world and to rank Baymak brand among the most valuable top 10 brands of the world in 2023.

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AUXILIARY EQUIPMENT

REFERENCES & AFTER SALE SERVICES

Central Heating Systems

The Warmest Technology's Ready to Serve You

At residential estates; water heating from one center is commonly provided by a central heating system. Baymak is serving to it's consumers with a large range of excellent central heating solutions under the light of it's technologic experience and know-how which has been gained in many years. Technologic knowledge of BDR Thermea and production experience of Baymak meets perfectly in Central Heating Systems.

CENTRAL HEATING SYSTEMS

- LECTUS WALL-MOUNTED CONDENSING BOILER
- LOGOBLOC 3 FULL PASS LOW TEMPERATURE BOILER
- MULTIBLOC 3 FULL PASS BOILER
- YAKUT SERIES 2 PASS STEEL BOILER
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- FATIH / GOKSEL SERIES STEEL FLOOR STANDING BOILER

CENTRAL HEATING SYSTEMS

CENTRAL HEATING SYSTEMS

LECTUS Wall-Mounted Condensing Boiler

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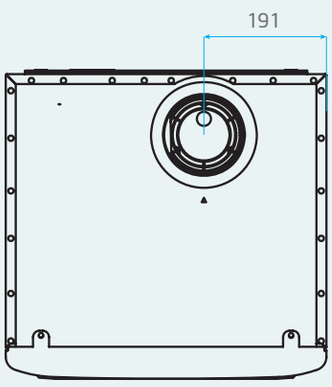
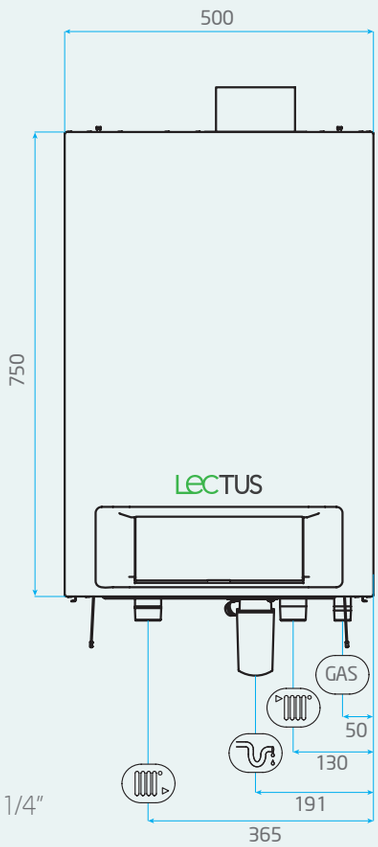
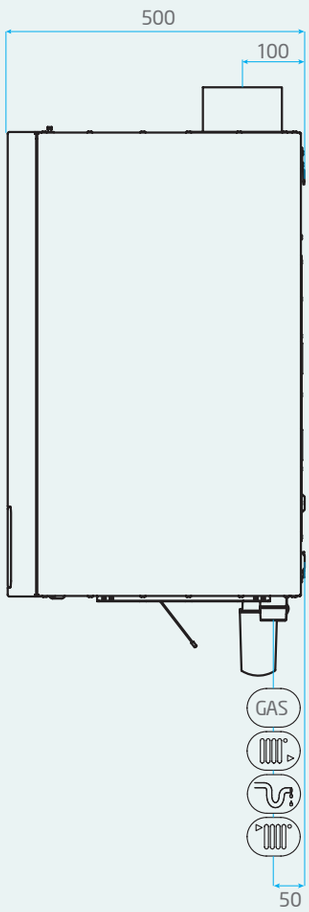
LECTUS Series Wall-Mounted Condensing Boiler

- Lectus series wall-mounted condensing boilers have a one-piece Al-Mg-Si cast heat exchanger
- High combustion efficiency is provided by the stainless steel burner and modulating fan
- Has an efficiency value yielding up to 111,3% in accordance with DIN 4708-2 norm at 40 °C of installation water flow temperature and 30 °C of installation water return temperature.
- Boilers can be connected as cascade up to 15 boilers,
- Has low emissions and high combustion efficiency with frequency-controlled fan. (NOx < 39 mg/kWh)
- The boiler is extremely quiet due to operating below 52 dB
- All the values to be seen over the boiler can be seen via Siemens control panels and a computer and can be intervened in.
- Saves space with its compact dimensions of 75x50x50 cm
- Can be used with Natural Gas and Propane. (The conversion kit is required for some models)
- Overheating safety thermostat protects the boiler when water temperature is too high (110 °C),
- Heating circuit operating temperature can be set between 20 °C and 90 °C.
- The acid level of water required for the opereation of condensing boilers should be between 7-9 pH
- Easy maintenance can be provided by the cleaning brush

Boiler Dimensions







- Flue connection diameter: Ø 100 mm
- Air connection diameter: Ø 150 mm
- Return water connection diameter: 1 1/4"
- GAZ Gas connection diameter: 3/4"
- Outlet water connection diameter: 1 1/4"
- Condensation water discharge

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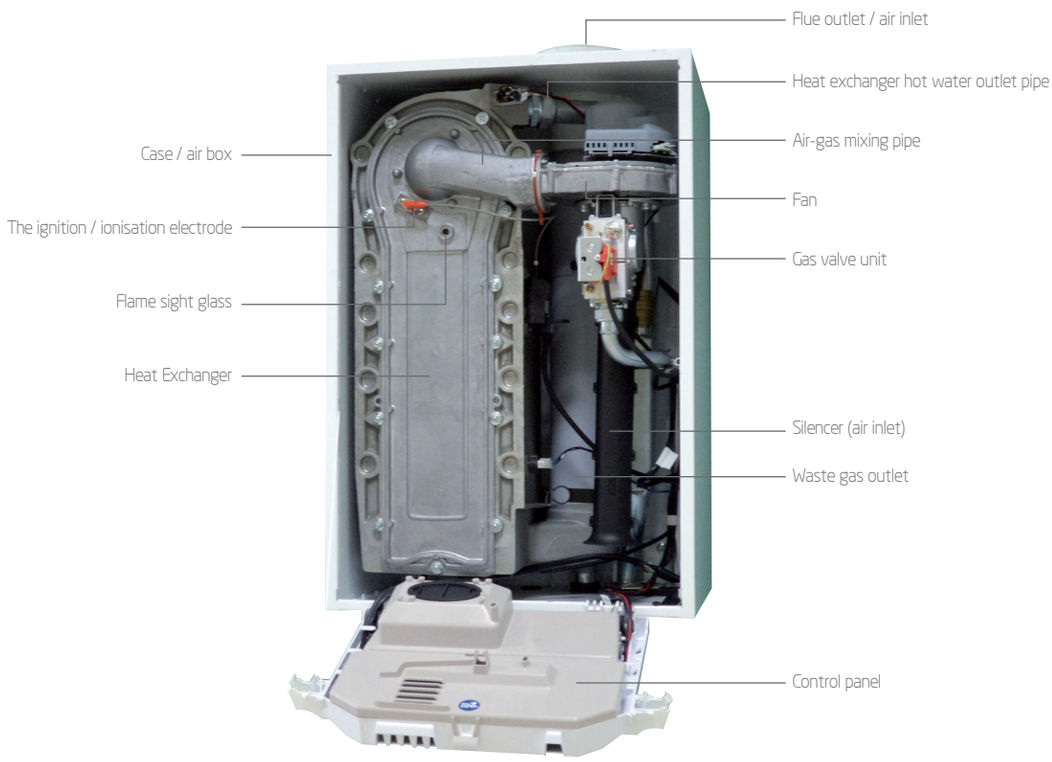
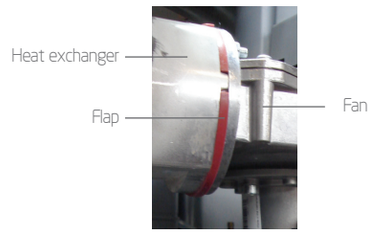
Boiler Technical Specifications



Flap

In Lectus Wall-mounted Condensing Boilers, the fan flap is located between fan and heat exchanger and can be easily cleaned.



Technical Data Sheet

SPECIFICATIONS	UNIT	LECTUS 65	LECTUS 90	LECTUS 115
Nominal Capacity 80/60 °C (min - max)	kW	12,0 - 61,0	14,1 - 84,2	16,6 - 107,0
Nominal Capacity 50/30 °C (min - max)	kW	13,3 - 65,0	15,8 - 89,5	18,4 - 114,0
Modulation Interval	%	20 - 100	17 - 100	16 - 100
Fan Pressure	Pa	100	160	220
Flue Gas Temperature (partial - complete)	°C	30 - 68	30 - 68	30 - 72
Flue Gas Mass Flow Rate (min - max)	kg/h	21 - 104	28 - 138	36 - 178
CO2 Content	%	9,0	9,0	9,0
NOx Emissions (EN483)	mg/kWh	<32	<39	<39
Water volume	l	6,5	7,5	7,5
Boiler Pressure Loss	mbar	130	140	250
Electric Power (min - max)	w	23 - 88	20 - 125	45 - 199
Standby Power Consumption	w	6	4	7
Sound intensity (1 meter distance with the cover open)	dB(A)	45	52	51
Weight	kg	61	69	70
Operating Pressure	bar	6	6	6
Operating Temperature (min-max)	°C	20 - 90	20 - 90	20 - 90

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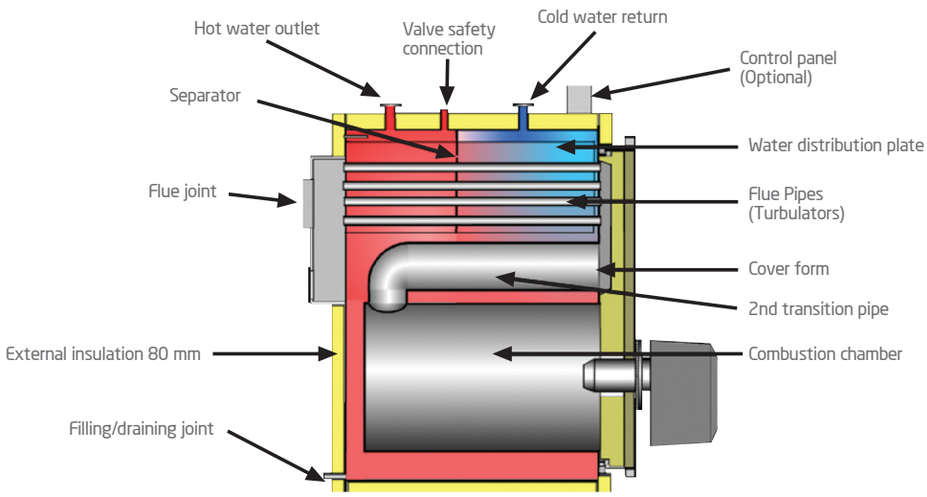
LOGOBLOC Series 3 Full Pass Low Temperature Boiler

- Use of high Standard thermal efficiency (94%) with low hot water technology
- Low-emission values with 3 full pass, eco-friendly
- Able to work at low hot water outlets (outlet water temperature in the boiler min with gas: 48 °C, min with diesel: 38 °C)
- Non-condensing working with Termomix technology
- Quiet operation, lower heat loss with a removable double-layer hood
- Anti-condensation feature with FIN technology
- Balance adjustable chassis
- Bidirectional opening boiler cover
- Sealing with double-wick mechanism
- Eco-friendly high temperature resistant Bio-Ceramic fiber insulation
- Low heat loss with double-layer front cover
- Passing through all doors with elliptic boiler structure
- Quiet operation
- Ergonomic design
- Long life

Boiler Technical Specifications



Technical Data Sheet

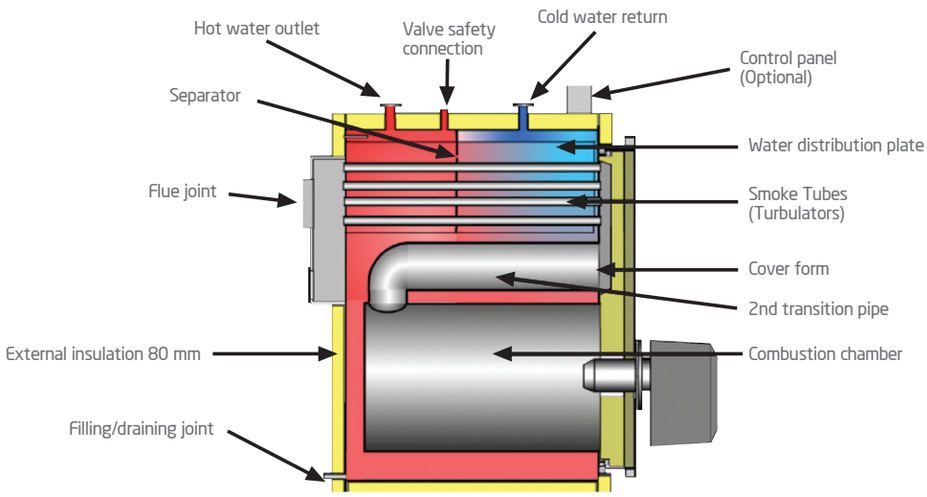
Models		L50	L70	L90	L120	L150	L180	L240	L300	L400	L500	L600	L750
Nominal Power	kW	50	70	90	120	150	180	240	300	400	500	600	750
Nominal Boiler Efficiency (80-60 ° C)		94	94	94	94	94	94	94	94	94	94	94	94
working Pressure	bar	4	4	4	4	4	4	4	4	5	5	5	5
Test Pressure	bar	6	6	6	6	6	6	6	6	7.5	7.5	7.5	7.5
Max. Operating Temperature	°C	90	90	90	90	90	90	90	90	90	90	90	90
Thermostat Cutting Temperature Limit	°C	110	110	110	110	110	110	110	110	110	110	110	110
Boiler Water Volume	l	131	187	204	270	284	320	412	478	746	867	919	935
Gas Side Volume	l	105	144	176	226	254	284	385	444	684	765	855	931
Flue Connecting Duct Inner Diameter	mm	150	150	180	180	180	180	225	225	250	250	250	250
Boiler weight (Coated)	kg	306	348	426	503	563	620	811	905	1291	1386	1509	1650
Width (Coated)	mm	740	740	830	830	870	870	910	910	1090	1090	1090	1090
Height (Coated)	mm	1125	1125	1270	1270	1370	1370	1540	1540	1594	1594	1594	1594
Depth (Coated)	mm	975	1235	1170	1430	1365	1495	1560	1755	1970	2165	2360	2480
Boiler Back-Pressure	mbar	0,14	0,16	0,23	0,39	0,58	0,80	1,16	1,25	1,40	2,48	2,98	4,74

- In these boilers, diesel oil is used as a liquid fuel. Heavy fuels like fuel-oil and so on, should not be used.
- Attention! The minimum boiler return water temperature is limited to min 35 °C for gas and min 25 °C for liquid fuel. Boilers cannot run under the specified boiler return water temperature. Specified minimum return temperatures are only applicable in case of using shunt pump.
- Boiler control panels are optional.

MULTIBLOC Series 3 Full Pass Boiler

- High efficiency
- ★★ efficiency class: High thermal efficiency by working at 80-60 °C
- Low-emission values with 3 full pass, eco-friendly
- Non-condensing working with Termomix technology (M6-M8-M10-M15-M20-M25)
- Quiet operation, lower heat loss with a removable double-layer hood
- Anti-condensation feature with FIN technology
- Bidirectional opening boiler cover
- Sealing with double-wick mechanism
- Low heat loss with double-layer front cover
- Passing through all doors with elliptic boiler structure
- Quiet operation
- Ergonomic design
- Long life

Boiler Technical Specifications



Technical Data Sheet

Models		M6	M8	M10	M15	M20	M25	M30	M40	M50	M60	M70	M80	M100
Nominal Power	kW	69.8	93	115.6	174.4	232.6	290.7	348.8	465.1	581.4	697	814	930	1162
Nominal Load	kcal/h	75.3	101.3	126.8	190	252	314	375	505	628	758	884	1011	1264
Nominal Boiler Efficiency (80-60 °C)		★★	★★	★★	★★	★★	★★	★★	★★	★★	★★	★★	★★	★★
Working Pressure	bar	3	3	3	3	3	3	3	3	3	3	3	3	3
Test Pressure	bar	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max. Operating Temperature	°C	90	90	90	90	90	90	90	90	90	90	90	90	90
Thermostat Cutting Temperature Limit	°C	95	95	95	95	95	95	95	95	95	95	95	95	95
Boiler Water Volume	l	186.8	210.3	263	322.7	418	482.2	533.3	878	990.4	986	824	960	1003
Gas Side Volume	l	116.3	144.7	183	240.5	337	397.9	412.4	571.5	656.6	744	1120	1218	1448
Flue Connecting Duct Inner Diameter	mm	150	180	180	180	225	225	225	250	250	250	250	394	394
Width (with casing)	mm	800	850	850	890	920	920	950	1075	1075	1075	1100	1100	1100
Height (with casing)	mm	1000	1135	1135	1230	1415	1415	1437	1716	1716	1716	2200	2200	2200
Depth (with casing)	mm	1272	1241	1475	1520	1611	1818	1860	1960	2300	2450	2480	2480	2480
Boiler weight (with casing)	kg	337	432	487	632	830	924	1020	1318	1464	1544	1910	2180	2280

- In M6 / M8 / M10 / M15 / M20 / M25 boilers, diesel oil is used as a liquid fuel. Heavy fuels like fuel-oil should not be used.
- In M6 / M8 / M10 / M15 / M20 / M25 boilers, the minimum return water temperature is limited to min 35 °C for gas and min 25 °C for liquid fuel.
- In M30 / M40 / M50 / M60 / M70 / M80 / M100 boilers, natural gas is only used. Heavy fuels like fuel-oil and diesel oil should not be used.
- In M30 / M40 / M50 / M60 / M70 / M80 / M100 boilers, the minimum return water temperature is limited to min 55 °C.

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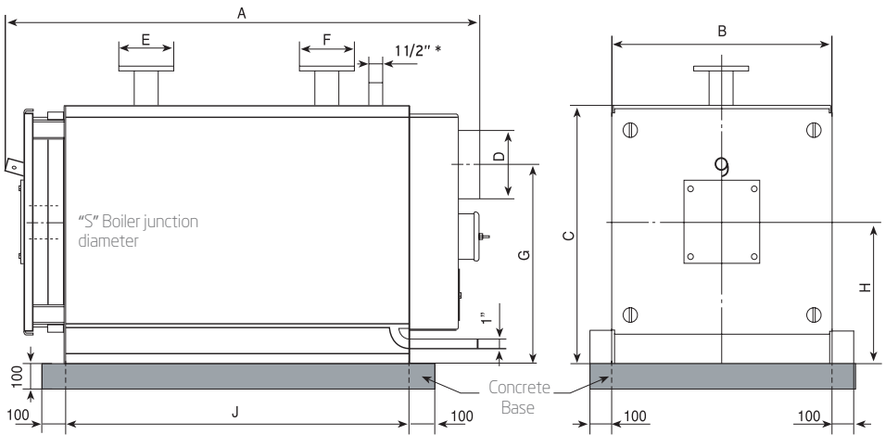
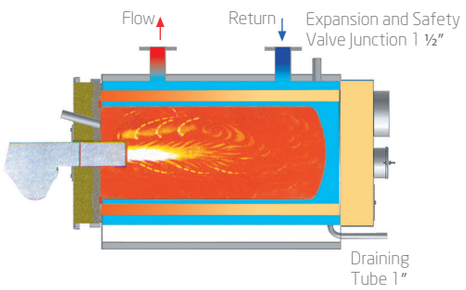
YAKUT Series 2 Pass Steel Boiler

- Standart 3 bar operating pressure of 3 bar for 65.000kcal/h - 800.000kcal/h
- Available for usage with Natural Gas and Oil
- Nature friendly due to low emmision values
- Bidirectional opening boiler cover
- High heat insulation with special insulated front door
- High smoke efficiency with special made turbulator
- Minimum sizes, maximum efficiency due to the capacity
- Availability of custom manucaturing for higher operating pressures

Boiler Technical Dimensions





Smooth start-up and quiet operation are provided by means of special construction of the combustion chamber.

Technical Data Sheet

Boiler Type	CAPACITY Kcal/h	CAPACITY kW	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	Water Volume l	Approximate Boiler Weight kg
6	65.000	75	1300	665	750	197	R 1 1/2"	R 1 1/2"	540	415	808	100	260
8	85.000	99	1370	700	815	217	R 1 1/2"	R 1 1/2"	605	440	845	105	350
10	100.000	115	1520	720	815	247	65	65	605	440	990	120	420
12	125.000	145	1520	720	815	247	65	65	605	440	990	120	420
15	150.000	175	1550	740	890	247	65	65	670	500	1030	186	465
18	180.000	205	1550	740	890	247	65	65	670	500	1030	186	465
20	200.000	235	1760	800	930	247	80	80	725	512	1210	250	560
25	250.000	290	1760	800	930	247	80	80	725	512	1210	250	560
30	300.000	350	1995	850	950	296	80	80	745	510	1460	320	675
35	350.000	410	1995	850	950	296	80	80	745	510	1460	320	675
40	400.000	465	2070	1020	1105	296	80	80	850	595	1487	565	945
50	500.000	580	2070	1125	1200	346	100	100	890	640	1487	635	1087
60	600.000	700	2070	1125	1200	346	100	100	890	640	1487	635	1087
70	700.000	815	2350	1125	1200	346	100	100	890	640	1725	690	1339
80	800.000	930	2350	1125	1200	346	100	100	890	640	1725	690	1339

- We reserve the right to modify the technical information.
- All connections in Yakut 6-8 boiler are geared. Expansion connection is R 1 1/4 ".
- This is S = 145 mm for Yakut 6, S = 175 mm between Yakut 8-35, S = 245 mm between Yakut 40-80.
- Boiler control panels are optional.
- Yakut 6-8-10 Boilers do not work with Fuel-Oil.

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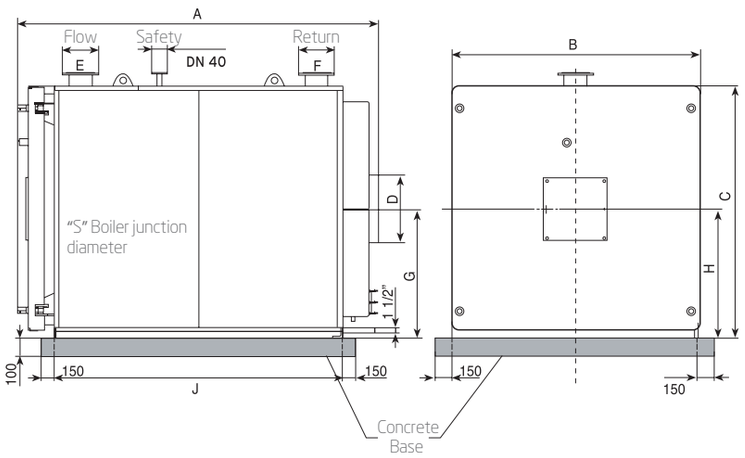
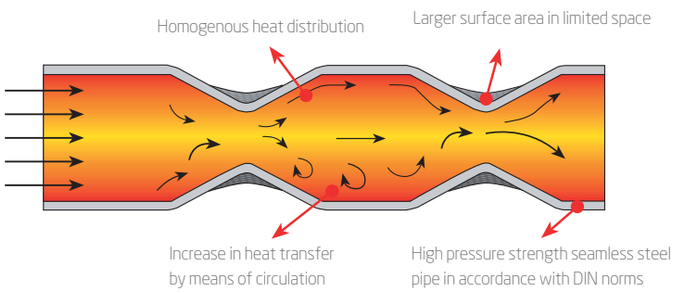
YAKUT PLUS Series 2 Pass Steel Boiler

- For large capacity needs;
  - Yakut Plus 100 - 1.000.000 kcal/h
  - Yakut Plus 130 - 1.000.000 kcal/h
  - Yakut Plus 160 - 1.600.000 kcal/h
  - Yakut Plus 200 - 2.000.000 kcal/h
  - Yakut Plus 250 - 2.500.000 kcal/h
- Standard operating pressure of 5 bar
- Ease of bidirectional opening - closing due to the new hinge system design,
- High thermal insulation due to special insulated cover
- High heat transfer in limited space due to special formed smoke tubes pipes
- Ease of installation and maintenance by means of walkable outer coat for Yakut Plus 100-250 boiler series
- Standard flanged safety connection
- Ergonomic boiler dimensions
- Availability of custom manucaturing for higher operating pressures

Boiler Technical Dimensions



The advantages of shaped smoke-tubes

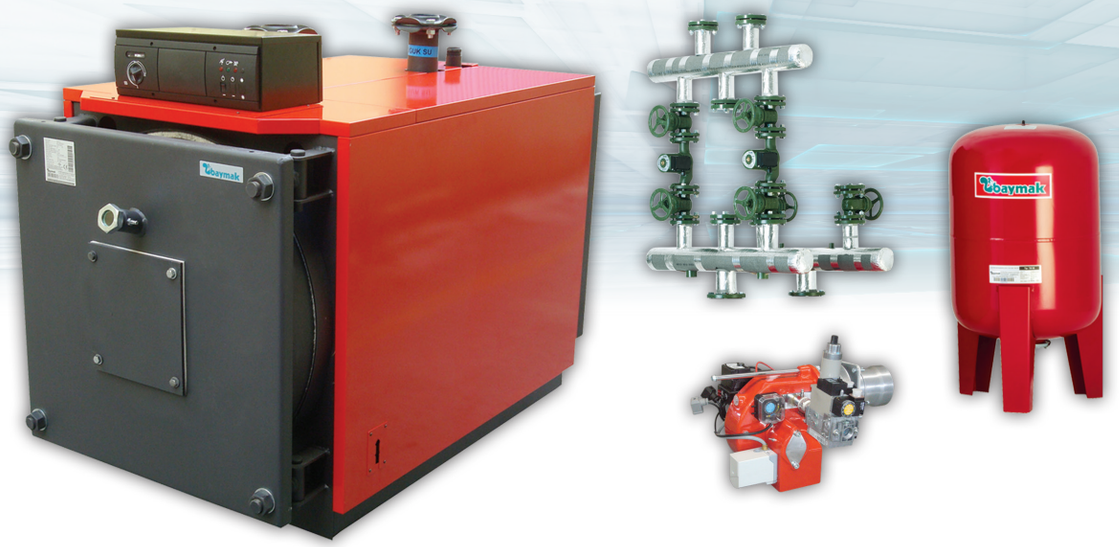


Technical Data Sheet

Boiler Type	CAPACITY Kcal/h	CAPACITY kW	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	Su hacmi l	Approximate Boiler Weight kg
100	1.000.000	1210	2380	1450	1466	500	DN 125	DN 125	766	766	1804	1327	2350
130	1.300.000	1540	2760	1750	1800	550	DN 125	DN 125	925	925	2330	2620	3350
160	1.600.000	1815	2760	1750	1800	550	DN 125	DN 125	925	925	2330	2590	3550
200	2.000.000	2310	2980	1900	1970	600	DN 150	DN 150	1020	1020	2400	3530	4600
250	2.500.000	2900	3425	2400	2350	650	DN 200	DN 200	1225	1225	2739	4700	6850

- This is S = 270 mm for Yakut Plus 100 - 130 - 160, S = 350 mm for Yakut Plus 200, S = 420 mm for Yakut Plus 250.
- We reserve the right to modify the technical information.
- Boiler control panels are optional.

ELMAS Series 2 Pass Packaged Steel Boiler



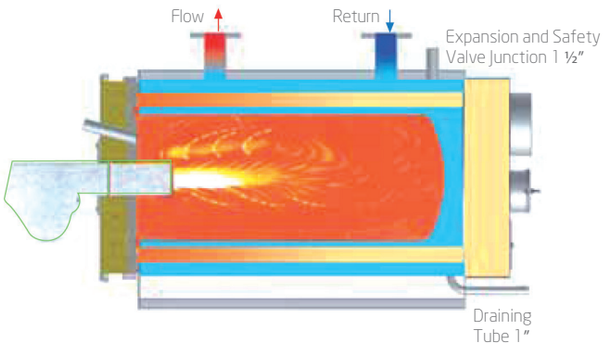
- Between the capacities of 100.000 kcal/h and 800.000 kcal/h
- 3 bar working pressure
- 2 pcs circulation pumps
- Burner
- Expansion tank
- Flow - Return collector group + valves

Packaged Boiler

Combustion chamber is designed as a bow for the first time in Turkey so as to facilitate orientation of the flame,

Combustion chamber ensures a quiet operation for the first activation of the burner.

Boiler's back-pressure structure provides high thermal efficiency of 92%.



Components Provided with the ELMAS Series Boiler

Boiler Type Elmas	CAPACITY Kcal/h	CAPACITY kW	Diesel Fuel Burner	Fuel Oil Burner	Natural Gas Burner	Circulation Pump	Collector DN	Expansion Tank l	Approximate Boiler Weight kg	Boiler Back-Pressure mbar
10	100.000	115	KL 20 1b2 III	-	BG 2-50/185 M	EVOPLUS B 60/250.40 M	65	200	420	1,10
12	125.000	145	KL 20 1b2 III	ECO 2 O (S) C 1A	BG 2-65/210 M	EVOPLUS B 60/250.40 M	65	200	420	1,30
15	150.000	175	KL 20 1b3 I	ECO 2 O (S) C 1A	BG 2-110/340 M	EVOPLUS B 80/250.40 M	65	200	465	1,50
18	180.000	205	KL 20 1b3 I	ECO 30 O (S) C 1	BG 2-110/340 M	EVOPLUS B 80/250.40 M	65	200	465	1,70
20	200.000	235	KL 20 1b3 I	ECO 30 O (S) C 1	BG 2-110/340 M	EVOPLUS B 60/220.40 M	80	300	560	1,70
25	250.000	290	KL 20 1b3 II	ECO 30 O (S) C 1	BG 2-135/445 M	EVOPLUS B 120/250.40 M	80	300	560	2,10
30	300.000	350	KL 20 1b3 II	ECO 30 O (S) C 1A	BG 2-175/545 T	EVOPLUS B 60/240.50 M	80	500	675	2,70
35	350.000	410	KL 20 1b3 III	ECO 45 O (S) C 1	BG 2-190/645 T	EVOPLUS B 60/240.50 M	80	500	675	3,00
40	400.000	465	KL 20 1b3 III	ECO 45 O (S) C 1A	BG 2-210/745 T	EVOPLUS B 60/240.50 M	80	500	945	3,20
50	500.000	580	KL 25 1b II	ECO 45 O (S) C 2B	BG 2-230/875 T	EVOPLUS B 120/280.50 M	100	750	1087	3,70
60	600.000	700	ECO 45 O (L) C 2B	ECO 45 O (S) C 2B	BG 3-250/1025 T	EVOPLUS B 120/340.65 M	100	750	1087	3,90
70	700.000	815	ECO 45 O (L) C 2B	ECO 45 O (S) C 2B	BG 3-275/1225 T	EVOPLUS B 120/360.80 M	100	1000	1339	4,00
80	800.000	930	ECO 45 O (L) C 2B	ECO 50 O (S) C 2	ECO 50 G C 3	EVOPLUS B 120/360.80 M	100	1000	1339	4,50

- STANDARD WORKING PRESSURES OF YAKUT - ELMAS BOILERS ARE 3 BAR, WHEREAS TEST PRESSURES ARE 4,5 BAR.
- BG 1 burners are single-phase burners in which installation gas pressure is 21 mbar, whereas BG 2 burners are dual-phase burners in which installation gas pressure is 300 mbar.
- Yakut 6-8-10 boiler do not work with Fuel Oil.
- case dfnselecting burner for the boilers, boiler's back-pressure, capacity and efficiency should be considered.
- All burners to be used must be long-barreled.
- Boiler control panels are optional.

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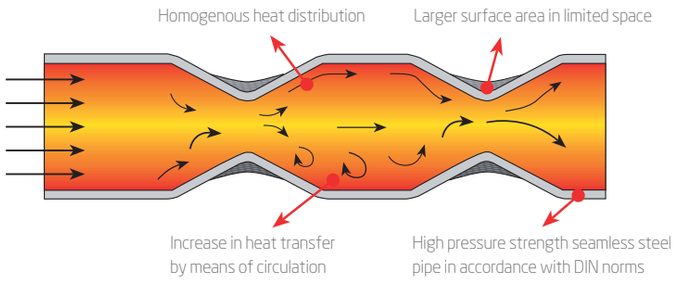
ELMAS PLUS Series 2 Pass Packaged Steel Boiler

- Between the capacities of 1.000.000 kcal/h and 2.000.000 kcal/h
- 5 bar working pressure
- 2 pcs circulation pumps
- Burner
- Expansion tank
- Flow - Return collector group + valves

Packaged Boiler

The advantages of shaped smoke-tubes



Components Provided with the ELMAS PLUS Series Boiler

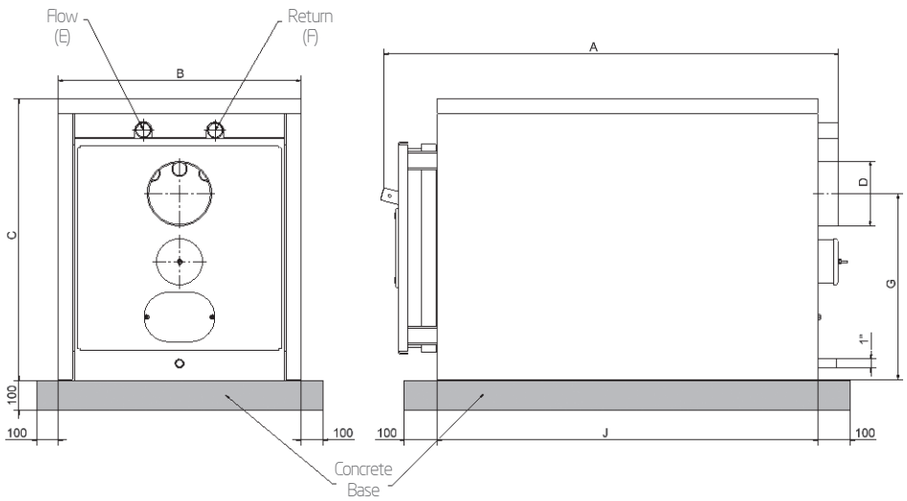
Boiler Type Elmas	CAPACITY Kcal/h	CAPACITY kW	Diesel Fuel Burner	Fuel Oil Burner	Natural Gas Burner	Circulation Pump	Collector DN	Expansion Tank l	Approximate Boiler Weight kg	Boiler Back-Pressure mbar
100	1.000.000	1210	ECO 50 O (L) C 2	ECO 50 O (S) C 2	ECO 50 GC 3	EVOPLUS B 120/360.80 M	125	1000	2350	5,00
130	1.300.000	1540	-	ECO 55 O (S) C 2	ECO 55 GC 3A	EVOPLUS B 120/360.80 M	125	1500	3350	5,50
160	1.600.000	1815	-	ECO 60 O (S) C 2	ECO 55 GC 3A	EVOPLUS D 120/360.80 M	125	2000	3550	6,10
200	2.000.000	2310	-	ECO 60 O (S) C 2	ECO 65 GC 3	EVOPLUS D 120/360.80 M	150	2500	4600	6,10
250	2.500.000	2900	UNDER SPECIAL PRICE REQUIREMENTS							

- STANDARD WORKING PRESSURES OF YAKUT PLUS - ELMAS PLUS BOILERS ARE 5 BAR, WHEREAS TEST PRESSURES ARE 7,5 BAR.
- Circulation pumps provided with the Elmas Plus boilers are three-phase pumps.
- Installation gas pressure for the ECO natural gas burner models must be 300 mbar.
- In case of selecting burner for the boilers, boiler's back-pressure, capacity and efficiency should be considered.
- All burners to be used must be long-barreled.
- Boiler control panels are optional.

SAFIR Series 2 Pass Steel Boiler

- Between the capacities of 65.000 kcal / h and 120.000 kcal / h
- Packaged boiler with a burner, a circulation pump and an expansion tank
- Ergonomic boiler dimensions, compact appearance
- Easily interfered circulation pump although remains under the coating
- High safety standard by means of safety valve directly connected to the boiler
- Bi-directional openable front cover of the boiler

Boiler Dimensions



Dimensions (mm)

Boiler Type	CAPACITY Kcal/h	CAPACITY kW	A mm	B mm	C mm	D mm	E mm	F mm	G mm	J mm	Water Volume l	Approximate Boiler Weight kg
6	65.000	75	1300	705	920	197	R 1 1/4"	R 1 1/4"	540	808	100	250
8	85.000	99	1370	740	1000	217	R 1 1/2"	R 1 1/2"	605	845	105	310
10	100.000	115	1520	760	1000	247	R 2"	R 2"	605	990	120	390
12	120.000	140	1520	760	1000	247	R 2"	R 2"	605	990	120	390

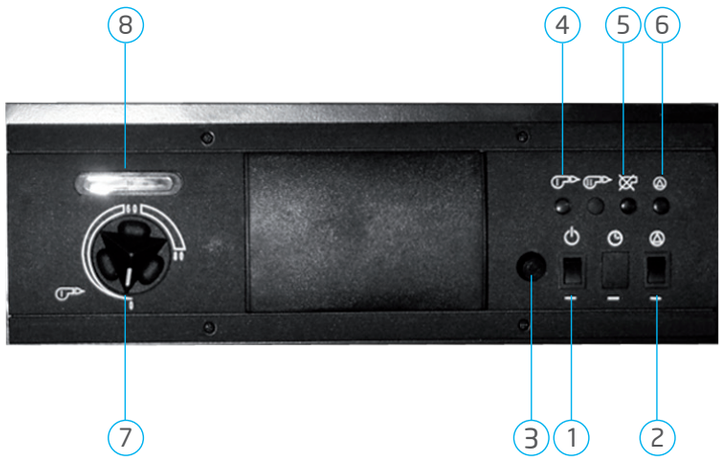
Components Provided with the SAFİR Series Boiler

Boiler Type Safir	CAPACITY Kcal/h	CAPACITY kW	Diesel Fuel Burner	Fuel Oil Burner	Natural Gas Burner	Circulation Pump	Collector DN	Expansion Tank l	Approximate Boiler Weight bar	Boiler Back-Pressure mbar
6	65.000	75	KL 20 1 b 2 II	-	KL 20 1 b G II	A 50/180.XM	1 1/4"	80 lt.	3	0,90
8	85.000	99	KL 20 1 b 2 III	-	KL 20 1 b G III	B 50/250.40 M	1 1/2"	100 lt.	3	0,90
10	100.000	115	KL 20 1 b 2 III	-	KL 20 1 b G III	B 50/250.40 M	2"	100 lt.	3	1,10
12	120.000	140	KL 20 1 b 2 III	BF 10/25 S	KL 20 1 b G III	B 56/250.40 M	2"	200 lt.	3	1,30

- The safety valve is mounted on the boiler. Provided with the manometer and air relief device.
- Installation pressure for natural gas must be 21 mbar.
- Boiler control panels are optional.

Single and Double Stage Standard Boiler Control Panel

Baymak Single Stage Control Panel controls single stage burners. It operates burners with its Temperature Setting Thermostat by controlling boiler temperature.

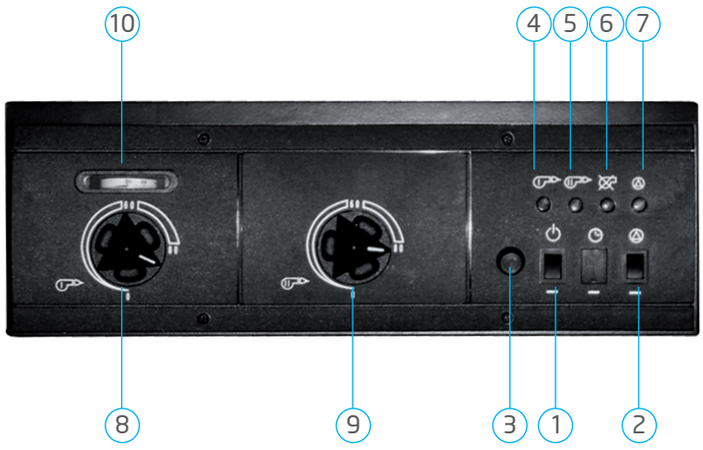


Control Equipments and Its Functions:

1. Boiler ON/OFF Button: Open or close the heating (Burner).
2. Pump ON/OFF Button: Open or close Boiler Pump.
3. Fuse: Protection against high-current with 6 amp fuse on the panel.
4. I.Stage Burner Light: Burner I. Stage Operation Light while working.
5. Burner Warning Light: Burner Fault Alert Light
6. Pump Light: Pump power supply
7. Temperature Setting Thermostat: Adjust the boiler temperature between 30 - 85°C.
8. Thermometer: Displays boiler temperature.

Double Stage Standard Boiler Control Panel

Baymak Double Stage Control Panel controls double stage burners. It operates burners with its I. Stage Temperature Setting Thermostat by controlling the boiler temperature. When II. Stage of the Burner starts to work, the temperature can be adjusted with II. Stage Temperature Setting Thermostat.



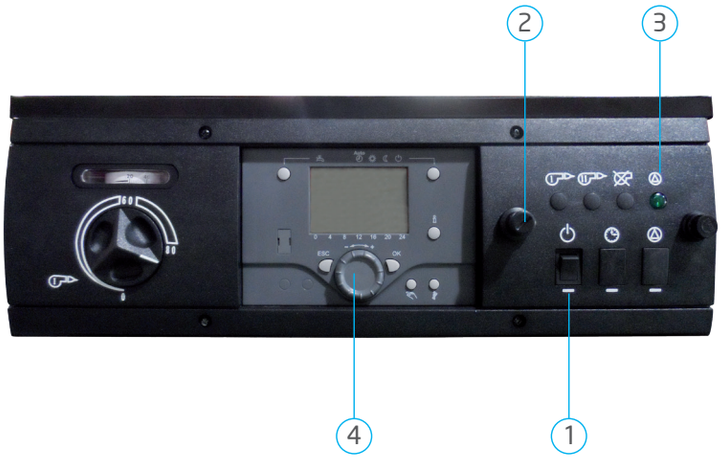
Control Equipments and Its Functions:

1. Boiler ON/OFF Button: Open or close the heating (Burner).
2. Pump ON/OFF Button: Open or close Boiler Pump.
3. Fuse: Protection against high-current with 6 amp fuse on the panel.
4. I.Stage Burner Light: Burner I. Stage Operation Light while working.
5. II.Stage Burner Light: Burner II. Stage Operation Light while working.
6. Burner Warning Light: Burner Fault Alert Light
7. Pump Light: Pump power supply
8. Temperature Setting Thermostat: Adjust the boiler temperature between 30 - 85°C.
9. II.Temperature Setting Thermostat: Adjust the temperature when II. Stage starts to work and stops in Double Stage Burners.
10. Thermometer: Displays boiler temperature.

Ecopanel Boiler Control Panel

Baymak ECOPANEL Boiler Control Panel, as single and double stage, does modulating burner control with the following features and functions:

- English manual
- Simply using and programing
- Large LCD screen
- Heating Curve selection
- Information Access in the system with information button
- Frost Protection Feature
- Flue Test Function
- Manual using function
- Holiday Mode
- Outdoor air compensation
- Automatic summer/winter position
- Weekly, daily and hourly setting
- Storage Tank and Re-circulation pump control in Boiler system.
- 3-way valve and zone control with pump



Control Equipments and Its Functions:

1. Boiler ON/OFF Button: Open or close the heating (Burner).
2. Pump ON/OFF Button: Open or close Boiler Pump
3. Fuse: Protection against high-current with 6 amp fuse on the panel.
4. Ecopanel: Programmable, multi-functional electronic control unit. It has two parts: Main Cotrol Unit and User Screen. As optional, cable connection or wireless Room Unit can be connected to the system.
5. Setting Thermostat: In case of Ecopanel using, it is set to the maximum temperature (85°C). It is not used as functional, just control Ecopanel.

Ecopanel Sensors

Sensors given together with Panel are for standard systems. According to the system, some of sensors may be changed or new sensor may be needed.

- 1 pcs Boiler Sensor
- 1 pcs Outdoor Air Sensor
- 1 pcs Storage Tank sensor

QAC34

QAD36

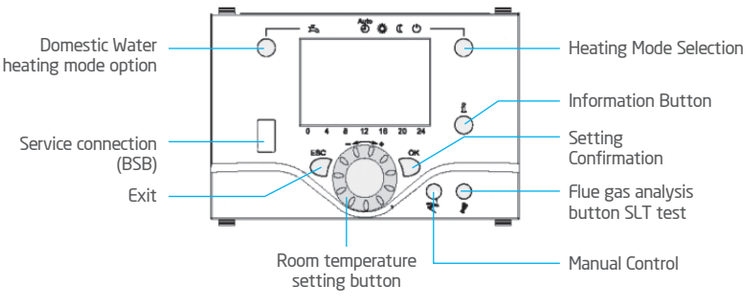
QAZ36

	QAC34	QAD36	QAZ36
Outdoor Air Sensor	✓	-	-
Flow Sensor	-	✓	✓
Domestic Water Sensor	-	✓	✓
Boiler Sensor	-	✓	✓

Ecopanel Equipments

Main Control Unit

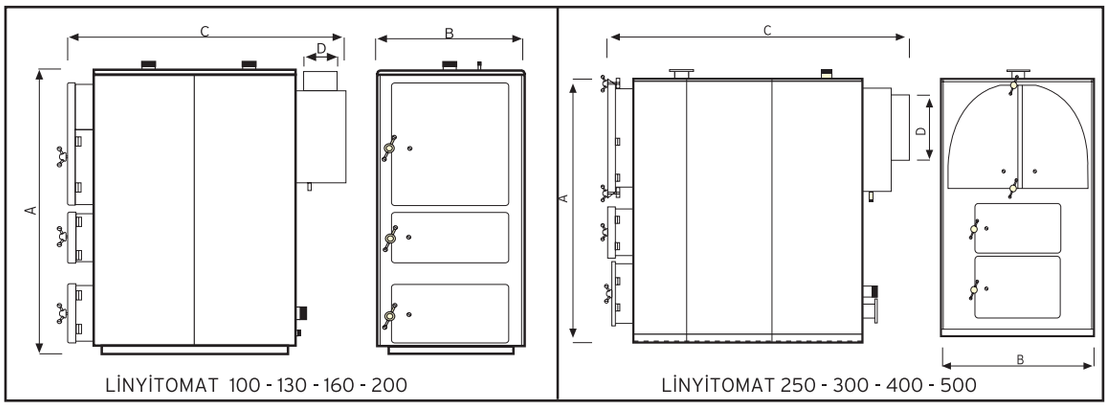
User Screen

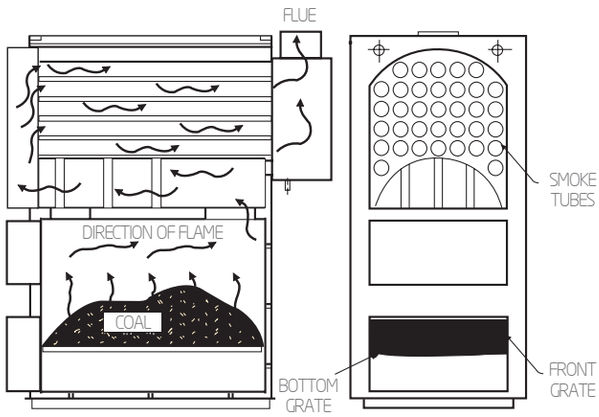


LINYITOMAT Series Solid Fuel Boiler

- 3-pass
- Complete combustion of any coal varieties by means of cast-iron grates
- High efficiency with low fuel consumption
- Three individual covers for smoke tube cleaning, loading and ash removal
- High-insulated top, middle and bottom covers
- The control of high-strength and sealing subjected to test 4.5 bar water test
- Discharge orifice for draining the condensate water accumulated in the flue hood
- Long life due to electrostatic powder coated exterior coating

Boiler Technical Dimensions





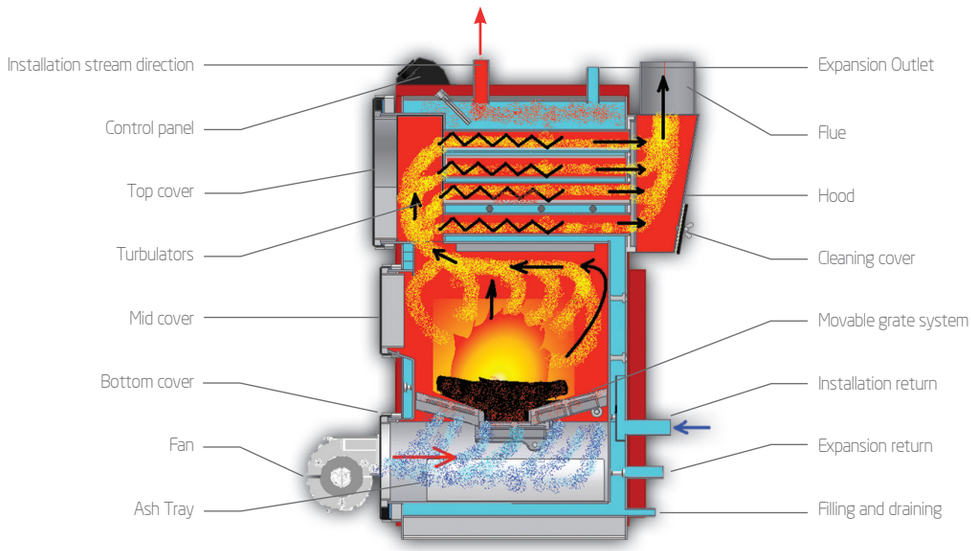
Technical Data Sheet

CAPACITY Kcal/h	A Height (mm)	B Width (mm)	C Depth (mm)	D Flue Diameter (Ø)	Installation Inlet (Ø)	Installation Outlet (Ø)	Expansion Inlet (Ø)	Expansion outlet (Ø)	Filling and Draining (Ø)	Boiler Water Volume (l)	Expansion Tank (l) (Optional)	Circulation Pump (Optional)	Weight (kg)	Test Pressure (Bar)	Working Pressure (Bar)
100.000	1510	870	1360	220	2"	2"	1 1/4"	1 1/4"	3/4"	285	110	EVOPLUS B 80/250.40 M	860	4,5	3
130.000	1680	880	1500	220	2 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	356	200	EVOPLUS B 80/250.40 M	960	4,5	3
160.000	1890	880	1500	220	2 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	413	200	EVOPLUS B 80/250.40 M	1030	4,5	3
200.000	1890	880	1640	220	3"	3"	1 1/2"	1 1/2"	3/4"	463	300	EVOPLUS B 60/220.40 M	1190	4,5	3
250.000	2000	1100	2160	300	3"	3"	2"	2"	3/4"	626	300	EVOPLUS B 120/250.40 M	1850	4,5	3
300.000	2000	1100	2430	300	3"	3"	2"	2"	3/4"	847	500	EVOPLUS B 60/240.50 M	2200	4,5	3
400.000	2280	1400	2870	550	DN 100	DN 100	3"	3"	1"	1700	500	EVOPLUS B 60/240.50 M	3900	4,5	3
500.000	2500	1500	3100	550	DN 100	DN 100	3"	3"	1"	2480	750	EVOPLUS B 120/280.50 M	4700	4,5	3

LINYITOMAT PLUS Series Solid Fuel Boiler

- Compact dimensions with elliptical body structure
- Positive sealing and ease of loading and draining due to 3 covers and latch design
- Low risk of condensation due to FIN welding technology over the smoke tubes ends
- Ease of cleaning with discharging and dedusting ash due to movable grate system
- Ability both for loading coal and disposal of ash due to dual-purpose ash tray
- High combustion efficiency due to special turbulators
- Ease of combustion setting with adjustable flue flap
- Complete combustion with flap fan structure
- Bi-directional openable boiler covers with double-sided hinge system
- Long-lasting with high temperature resistant cast iron grates
- Hassle-free fuel loading with large coal loading port
- Ease of cleaning and maintenance with removable hood

Boiler Technical Specifications



Technical Data Sheet

Models		LP20	LP40	LP60	LP80
Nominal Power	kcal/h	20.000	40.000	60.000	80.000
Nominal Power	kW	23	46	69	93
Power Range	kW	18-23	32-46	50-69	75-93
Flue output values required according to DIN 4705	Pa	> 5	> 5	> 5	> 5
Boiler Max. operating pressure	bar	3	3	3	3
Boiler test pressure	bar	4,5	4,5	4,5	4,5
Maximum operating temperature	°C	90	90	90	90
Thermostat cut-off temperature limit	°C	110	110	110	110
Boiler water volume	l	70	107	162	200
Boiler weight	kg	255	377	492	641
Boiler open expansion tank (optional)	l	50	100	100	110
Circulation pump (DAB) (Optional)	Model	EVOSTA 40-70/130	EVOSTA 40-70/130	EVOPLUS 60/180 XM	EVOPLUS 60/180 XM
Flue connecting duct diameter	mm	130	150	150	200
Width (with casing)	mm	590	690	690	790
Height (with casing)	mm	1163	1367	1415	1572
Depth (with casing)	mm	735	880	1110	1260

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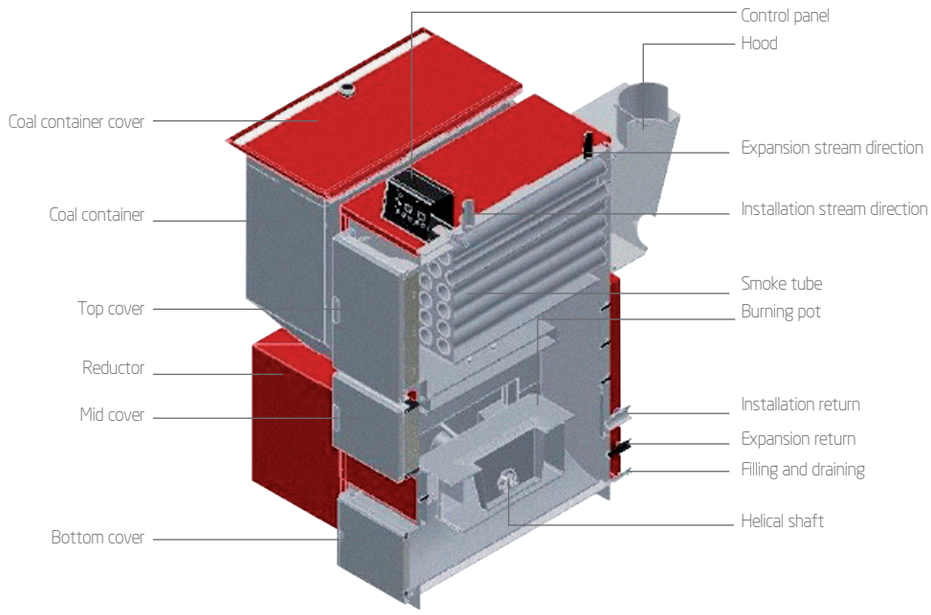
STOCKER LINYITOMAT PLUS Series

Solid Fuel Steel Floor Standing Boiler

- Compact dimensions with elliptical body structure
- Positive sealing and ease of loading and draining due to 3 covers and latch design
- Low fuel consumption
- High combustion efficiency due to special turbulators
- Ease of combustion setting with adjustable flue flap
- Long-lasting with high temperature resistant cast iron grates
- Ease of cleaning and maintenance with removable hood
- Bottom-fed high-quality pot
- Positive sealed large coal container
- Automatic fuel feeding with the help of the reductor and helical shaft
- Automatic and manual located control panel

Boiler Technical Specifications



Technical Data Sheet

Models		LP20	LP40	LP60	LP80
Nominal power	kcal/h	20.000	40.000	60.000	80.000
Nominal power	kW	23	46	69	93
Power range	kW	18-23	32-46	50-69	75-93
Boiler Max. operating pressure	bar	3	3	3	3
Boiler test pressure	bar	4,5	4,5	4,5	4,5
Maximum operating temperature	°C	90	90	90	90
Thermostat cut-off temperature limit	°C	110	110	110	110
water volume	l	70	107	162	200
Boiler weight	kg	255	377	492	641
Boiler open expansion tank (Optional)	l	50	100	100	110
Circulation pump (DAB) (Optional)	Model	EVOSTA 40-70/130	EVOSTA 40-70/130	EVOPLUS 60/180 XM	EVOPLUS 60/180 XM
Flue connecting duct diameter	mm	130	150	150	200
Coal capacity	kg	85	125	145	170
Width (with casing)	mm	972	1072	1105	1204
Height (with casing)	mm	1163	1367	1415	1572
Depth (with casing)	mm	735	880	1110	1260

FATIH / GOKSEL Series

Steel Floor Standing Boiler

Boiler Technical Specifications

- Capacity range between 10.000 kcal / h and 50.000 kcal/h
- 91% thermal efficiency
- Pressure-resistant, high-efficiency steel boiler
- 3-speed DAB circulation pump mounted to boiler in all models,
- Ready for use packaged boiler feature with all installation components
- Ready for use for hot water at any time in summer and winter in hot-water cylinder models
- Aesthetic appearance with contemporary, smoothed lines
- High reliability
- Model indices;

  TK : With time clock (Timer) and closed expansion tank

  BTK : With hot-water cylinder, time clock (timer) and closed expansion tank

  BTEK : With hot-water cylinder, time clock (timer), eco-panel and closed expansion tank

Technical Data Sheet

Models		10/18	10/18 B	19/25	19/25 B	26/32	26/32 B	33/40 B	33/40 B	41/50
Capacity	kcal/h	18.000	18.000	25.000	25.000	32.000	32.000	40.000	40.000	50.000
Boiler water volume	l	21	21	28	28	38	38	50	50	54
Weight	kg	117	124	159	166	173	180	187	194	220
Operating pressure	Bar	3	3	3	3	3	3	3	3	3
Flue connection	mm	Ø130	Ø130	Ø130	Ø130	Ø130	Ø130	Ø130	Ø130	Ø150
Installation stream/return	Ø	1"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Electrical connection	Volt/Hz	220/50	220/50	220/50	220/50	220/50	220/50	220/50	220/50	220/50
Diesel fuel burner		KL 18	KL 18	KL 20.1AV	KL 20.1AV	KL 20.1AV	KL 20.1AV	KL 20.1AV	KL 20.1AV	KL 20.1bII
Expansion tank *	l	10	10	10	10	18	18	35	35	50
Circulation pump	DAB	VA35/130	VA35/130	VA35/130	VA35/130	VA35/130	VA55/130	VA65/130	VA65/130	VA65/130
Hot water production	l / dk.	-	11	-	13	-	13	-	17	-
Height	mm	665	665	817	817	817	817	885	885	992
Width	mm	465	465	465	465	530	530	530	530	530
Depth	mm	765	765	800	800	865	865	817	817	817

(*) The expansion tank in 10/18, 19/25 and 26/32 models is located over the boiler and mounted to it. The expansion tank in 33/40 and 41/50 models is individually provided with the boiler.

Individual Heating Systems

Economy and Comfort Exists Together

Heating of indepent section is performed with individual heating systems through the heating energy obtained from a heat production source placed in an independent section. Individual heating systems today are provided with hermetic boilers. Baymak, through the condensing combi boilers with superior premix combustion technology, provides economy and comfort together to the consumers with efficieny values yield to 109,1 %.

INDIVIDUAL HEATING SYSTEMS

- BAYMAK BYP-HE SERIES CONDENSING COMBI BOILERS WITH PREMIX TECHNOLOGY
- BAYMAK BYP-HE SERIES CONDENSING COMBI BOILERS WITH 3 HEAT-EXCHANGERS
- BAYMAK BYD-SE SERIES CONVENTIONAL COMBI BOILERS
- BAYMAK BYM-SE SERIES CONVENTIONAL COMBI BOILERS
- HERMETIC NATURAL GAS STOVE (NATURAL GAS-LPG STOVE)

INDIVIDUAL HEATING SYSTEMS

INDIVIDUAL HEATING SYSTEMS

Combi Boilers

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BAYMAK BYP-HE Series

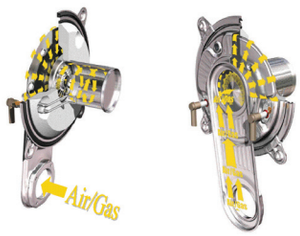
Condensing Combi Boilers With Premix Technology (BYP-HE 24-28-33-42-45)

- Premix combustion technology
- 109,1% efficiency (30% at partial load)
- Energy Efficiency ★★★★ (92/42 CEE)
- Combustion group with cold burner door technology
- Fault detection system
- NOx class 5

Combi Boiler Technical Specifications

Stainless Steel Heat Exchanger - Burner Assembly:

Burner assembly appropriate for the combustion of natural gas with its 316 L stainless steel structure.



CBD (Cold Burner Door)

Heat losses are reduced by preventing heating of the cover with the system.
More efficient combustion is ensured by pre-heating of air- gas mixture.

Technical Data Sheet

Models		BYP-HE 24	BYP-HE 28	BYP-HE 33	BYP-HE 42	BYP-HE 45
Maximum efficiency / (50/30 °C)	%	106.4	106.5	106.8	105.8	105.8
Partial load efficiency (return 30 °C)	%	108.7	109.0	109.1	109.1	109.1
Maximum heat load	kW	22.6	27	31	40	42.5
Minimum heat load	kW	4.5	5.4	6	9.5	10.3
Maximum heating power - heating (80/60 °C)	kW	22.1	26.2	30.1	38.7	41
	kcal/h	19 000	22 600	25 970	33.282	35.260
Minimum heat power - heating (80/60 °C)	kW	4.3	5.2	5.7	9.1	9.7
	kcal/h	3 700	4 470	4 900	7.826	8.342
Maximum heating power - heating (50/30 °C)	kW	24	28.6	33	42	45
	kcal/h	20 640	24 590	28 380	36.120	38.700
Minimum heat power - heating (50/30 °C)	kW	4.7	5.7	6.35	9.8	10.8
	kcal/h	4 040	4 900	5 460	8.428	9.288
Maximum heat load of domestic hot water	kW	24.3	27.4	31.2	40	42.5
Efficiency Class - 92/42/EEC	-	★★★★	★★★★	★★★★	★★★★	★★★★
Maximum working pressure of the heating circuit	bar	3	3	3	3	3
Expansion tank capacity	*l*	8	8	10	12	12
Expansion tank initial pressure	bar	1	1	1	1	1
Maximum pressure of domestic hot water circuit	bar	8	8	8	8	8
Minimum pressure of domestic hot water circuit	bar	0.15	0.15	0.15	0.15	0.15
Minimum domestic hot water output	*l*/min	2.5	2.5	2.5	2.5	2.5
Domestic hot water flow rate (ΔT = 30 °C)	*l*/min	11.0	12.5	14.2	18	18.6
Flue type	-	$C_{13(x)}$-C_{33}-C_{53}	$C_{13(x)}$-C_{33}-C_{53}	$C_{13(x)}$-C_{33}-C_{53}	$C_{13(x)}$-C_{33}-C_{53}	$C_{13(x)}$-C_{33}-C_{53}
Hermetic flue	mm	60/100	60/100	60/100	60/100	60/100
Twin flue gas pipe diameter	mm	80	80	80	80	80
Twin flue fresh air intake pipe diameter	mm	80	80	80	80	80
Maximum flue gas temperature	°C	80	80	80	80	80
NOx class	-	5	5	5	5	5
Type of gas	-	G20	G20	G20	G20	G20
Natural gas supply pressure	mbar	20	20	20	20	20
Supply voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Electric Power	W	145	145	145	160	160
Height	mm	802	802	802	802	802
Width	mm	450	450	450	450	450
Depth	mm	340	340	340	340	340
Net weight	kg	44	45	46	49	49
Electrical protection class	-	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D

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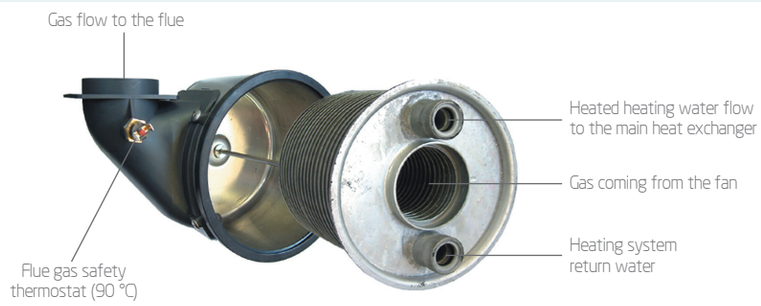
BAYMAK BYC-HE Series

Condensing Combi Boilers With 3 Heat-Exchangers (BYC-HE 24-31)

- Full digital control panel with LCD display
- High efficiency 103.14%
- Energy efficiency ★★★★ (92/42 / CEE)
- New compact hydraulic group comprising a flow sensor that provides high comfort for electric motor driven 3-way valve and domestic hot water
- Flow control with turbine flow meter
- Digital system and fault status control
- Aluminum silicone-coated copper main heat exchanger
- Special condensing heat exchanger with 18 plates
- Stainless steel domestic hot water heat exchanger
- Electrical energy saving with low energy circulation pump
- Brass hydraulic group

Combi Boiler Technical Specifications

Secondary Heat Exchanger



Made of 18 Pieces aluminum sheet (AA3003)
Heat Exchanger weight : 2,4 kg
Water Capacity : 0,48 liter

Technical Data Sheet

Models		BYC-HE 24 Fi	BYC-HE 31 Fi
Gas category		II2H3B/P	II2H3B/P
Maximum (nominal) Heat Load	kW	24,8	30,5
Minimum (nominal) Heat Load	kW	10,6	11,9
Max. Power 80/60 °C	kW	24	29,6
	kcal/h	20.600	25.460
Min. Power 80/60 °C	kW	9,8	11
	kcal/h	8430	9460
Max. Power 50/30 °C	kW	25,2	31
	kcal/h	21.672	26.660
Min. Power 50/30 °C	kW	10,1	11,3
	kcal/h	8.686	9.718
Maximum heat load of domestic hot water	kW	24,8	30,5
Efficiency Class - Directive 92/42/EEC	–	★★★★	★★★★
Central heating circuit maximum pressure	bar	3	3
Expansion tank capacity	l	8	8
Expansion tank initial pressure	bar	1	1
Domestic hot water circuit max pressure	bar	8	8
Domestic hot water circuit min dynamic pressure	bar	0,15	0,15
Min. domestic hot water outlet	l/min	2,5	2,5
Domestic hot water flow rate (ΔT=30 °C)	l/min	11,1	14
Flue type	–	$C_{12(X)}$-C_{32}-C_{42}-C_{52}-C_{82}-B_{22}	$C_{12(X)}$-C_{32}-C_{42}-C_{52}-C_{82}-B_{22}
Flue gas pipe diameter	mm	60	60
Fresh air intake pipe diameter	mm	100	100
Twin flue gas pipe diameter	mm	80	80
Twin flue fresh air intake pipe diameter	mm	80	80
Maximum flue gas temperature	°C	80	80
NOx class	–	3	3
Type of gas	–	G20	G20
	–	G30/G31	G30/G31
Natural gas supply pressure	mbar	20	20
LPG supply pressure	mbar	30	30
Supply voltage	V	230	230
Frequency	Hz	50	50
Electric Power	W	170	180
Net weight	kg	43,5	44
Dimensions height	mm	780	780
width	mm	450	450
depth	mm	345	345
Electrical protection		IP X4D	IP X4D

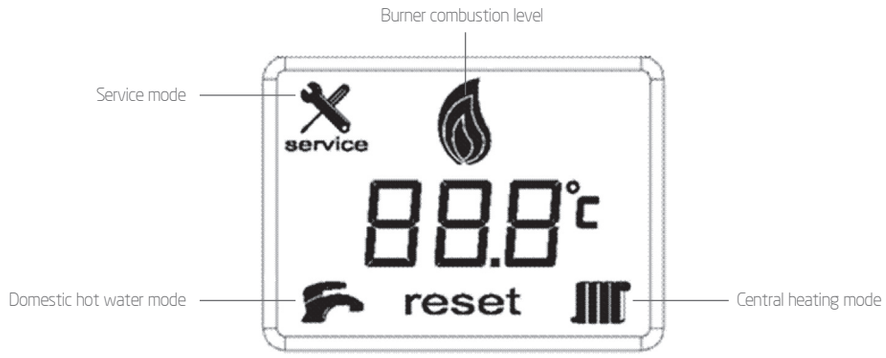
baymak

BAYMAK BYD-SE Series

Conventional Combi Boilers (BYD-SE 24-31)

- Energy efficiency ★★★ (92/42 CEE)
- Comfortable heating and hot water supply with dual heat exchanger structure
- Digital LCD display panel
- Fault diagnosis system
- 3-way valve with electric motor
- Electrical energy saving by low energy circulation pump
- Fuel economy with high modulating gas valve
- Temperature control with two NTC sensors
- Domestic hot water heat exchanger with stainless steel plate
- Full protection against freezing by heating and domestic hot water circuit
- Anti-Blocker System: Circulation pump is automatically activated once in every 24 hours and prevents blockage
- Non-stop hot water comfort with the turbine flow meter of domestic hot water circuit

Combi Boiler Technical Specifications



Technical Data Sheet

Models		BYD-SE 24 Fi	BYD-SE 31 Fi
Maximum Heat Load	kW	25,8	33,3
Minimum Heat Load	kW	11	11,9
Maximum Heat Power	kW	24	31
	kcal/h	20.600	26.700
Minimum Heat Power	kW	9,6	10,4
	kcal/h	8.250	8.900
Efficiency Class - Directive 92/42/EEC	–	★★★	★★★
Central heating circuit maximum pressure	bar	3	3
Expansion tank capacity	l	7	10
Central heating temperature range	°C	30 - 85	30 - 85
Expansion tank initial pressure	bar	1	1
Domestic hot water circuit max pressure	bar	8	8
Domestic hot water circuit min dynamic pressure	bar	0,15	0,15
Min. domestic hot water outlet	l/min	2,5	2,5
Domestic hot water temperature range	°C	35 - 60	35 - 60
Domestic hot water flow rate (ΔT=30 °C)	l/min	10,7	13,7
Flue type	–	$C_{12(X)}$-C_{32}-C_{42}-C_{52}-C_{82}-B_{22}	$C_{12(X)}$-C_{32}-C_{42}-C_{52}-C_{82}-B_{22}
Flue gas pipe diameter	mm	60	60
Fresh air intake pipe diameter	mm	100	100
Twin flue gas pipe diameter	mm	80	80
Twin flue fresh air intake pipe diameter	mm	80	80
Maximum flue gas temperature	°C	140	145
NOx class	–	3	3
Type of gas	–	G20	G20
	–	G30/G31	G30/G31
Natural gas supply pressure	mbar	20	20
LPG supply pressure	mbar	30	30
Supply voltage	V	230	230
Frequency	Hz	50	50
Electric Power	W	135	165
Net weight	kg	29	35
Dimensions height	mm	745	825
width	mm	400	450
depth	mm	300	345
Electrical protection		IP X4D	IP X4D

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BAYMAK BYM-SE Series

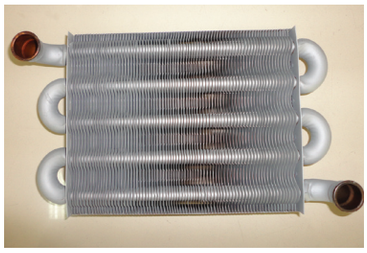
Conventional Combi Boilers (BYM-SE 24)

- Energy efficiency ★★★ (92/42 CEE)
- Comfortable heating and hot water supply with dual heat exchanger structure
- Digital LCD display panel
- Fault diagnosis system
- 3-way valve with electric motor
- Electrical energy saving by low energy circulation pump
- Temperature control with two NTC sensors
- Domestic hot water heat exchanger with stainless steel plate
- Full protection against freezing by heating and domestic hot water circuit
- Anti-Blocker System: Circulation pump is automatically activated once in every 24 hours and prevents blockage
- Non-stop hot water comfort with the turbine flow meter of domestic hot water circuit

Combi Boiler Technical Specifications

Stainless Steel Burner Group:

Burner group appropriate for the combustion of natural gas and LPG with its stainless steel structure of the upper part is long-lasting.



Heat Exchanger:

The main heat exchanger in contact with flame is produced as fine structure since its heat resistance is higher. Thanks to this feature, temperature transfering of the gas burned in the the combustion chamber into the water passing through main heat exchanger is provided more quickly.

Technical Data Sheet

Models		BYM-SE 24 Fi
Gas category		II2H3B/P
Maximum heat load	kW	25.8
Minimum heat load	kW	13.0
Maximum heat power	kW	24.0
	kcal/h	20.640
Minimum heat power	kW	11.6
Maximum efficiency (Nominal)	%	93
Efficiency Class in accordance with 92/42/EEC Directive		★★★
Central heating system max. Pressure	bar	3
Heating circuit temperature setting range	°C	30 - 85
Hot domestic hot water circuit temperature setting range	°C	35 - 60
Expansion tank capacity	l	7
Expansion tank initial pressure	bar	1
Hot domestic hot water circuit max pressure	bar	8
Hot domestic hot water circuit min dynamic pressure	bar	0.15
Min. hot domestic hot water production	l/min	2.5
Hot domestic hot water production (ΔT = 25 °C)	l/min	13.7
Flue type		C_{12}-C_{32}-C_{52}-C_{82}-B_{22}
Special domestic hot water production (according to EN 625)	l/min	10.7
Equiaxial flue diameter	mm	60/100
Max. flue gas flow	kg/sec	0.014
Min. flue gas flow	kg/sec	0.014
Flue gas max. temperature	°C	140
NOx class	-	3
Type of gas	-	Natural Gas/LPG
Voltage	V	230
Frequency	Hz	50
Net weight	kg	38
Power consumption	W	135
Dimensions height	mm	725
width	mm	400
depth	mm	300
Protection class (According to EN 60529)	-	IPX 4D

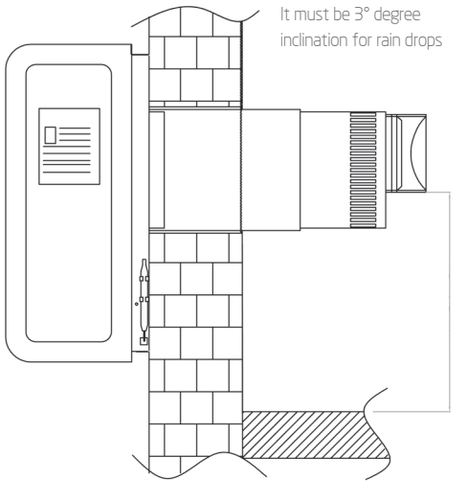
baymak

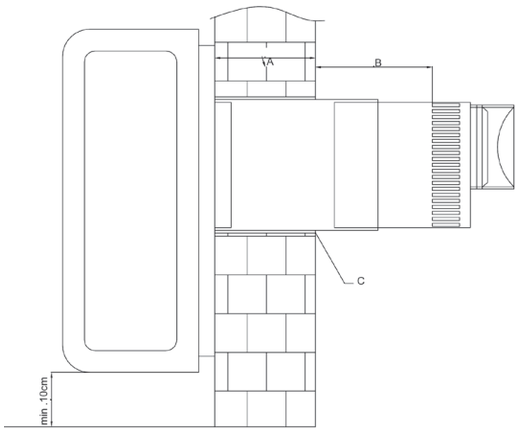
HERMETIC NATURAL GAS STOVE

Natural Gas - LPG Stove (BDU 10)

- Combustion feature with LPG or natural gas
- 11 KW power
- Safe, comfortable, high-efficiency heating
- Easy to install, compatible with the ambiance, aesthetic appearance
- Special construction enameled combustion chamber
- Availability to hold the ambient temperature constant through the automatic thermostat
- Ambient temperature can be adjusted in 7 different stages by means of gas valve
- Provides fuel economy by switching into pilot position at desired temperature level
- Intakes fresh air necessary for combustion from external environment, releases the burned gases out, so that it does not consume and pollute the ambient air
- Stainless steel burners with European norms
- Full safety with the magnet valve that automatically cuts the passage of the gas by means of gas safety equipment in case of the flame extinguishes for any reason
- TSE, CE certified
- Wall mountable
- Piezo ignition

Natural Gas Stove Technical Specifications





A- The wall thickness of the flue kit to be mounted should be max. 42 cm and min. 25 cm. The desired distance can be set by the telescopic chimney.
(if the wall width is smaller than 25 cm. length of the pipe must be cut and shortened)

B- Pay attention to be min.1 cm and max.5 cm distance between the air inlet holes and the wall surface.

C- Fill the gaps between the wall and the pipe with a fireproof material (gypsum, etc.)

Technical Data Sheet

Models		BDU 10 Hermetic Stove	
Product Identification Number		CE1798/008E/EC	CE1798/008E/EC
Gas Type		Natural Gas NG 20 (G 20)	LPG 30 (G 30)
Gas Type Pressure	mbar	20	30
Rated Load	kW	11	11
Gas Flow Rate	m^3/h	1.03	0.820
Device Category		I2H	I3B/P
Gas Inlet Connection		1/2"	
Ignition		PIEZO	
Type of Device		C11 / Hermetic	
NOx Class		4	
Efficiency Class		1	
Effective Yield		%86	
Unpacked Dimensions	mm	285 x 1040 x 630	
Packaged Dimensions	mm	330 x 1060 x 690	
Unpacked Weight	kg	32.2	
Packaged Weight	kg	34.7	
Flue Gas Pipe Diameter	cm	24	

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İŞ ELDİVENİ
GİYİNİZ
İŞ
GÖZLÜĞÜ
KULLAN
KORUYUCU
AYAKKABI
GİY

Hot Water Group
Your Health is Our Priority

Inner side of hot water tanks that are manufactured at Baymak facilities with the latest technology are enamel coated. The water that can be stored in a hygienic way for a long time within the enamel-coated hot water tanks, are provided to the consumer service as ready for use in terms of health. Baymak electric water heater and hot water storage tanks are long-lived with their robust insulation and hygiene certificate, they are the ideal choice for use with contentment.

HOT WATER GROUP

- AQUA SINGLE COIL HOT-WATER STORAGE TANKS
- AQUA DOUBLE COIL HOT-WATER STORAGE TANKS
- AQUA CYLINDRICAL ELECTRIC WATER HEATERS
- OVER SINK / UNDER SINK ELECTRIC WATER HEATERS
- AQUA PRISMATIC JET ELECTRICAL WATER HEATERS
- AQUA LCD PRISMATIC ELECTRIC WATER HEATERS
- AQUA COMFORT PRISMATIC ELECTRIC WATER HEATERS
- AQUA ELECTRIC WATER HEATERS WITH COIL
- HERMETIC GAS WATER HEATERS (BH 11 - 13)

HOT WATER GROUP

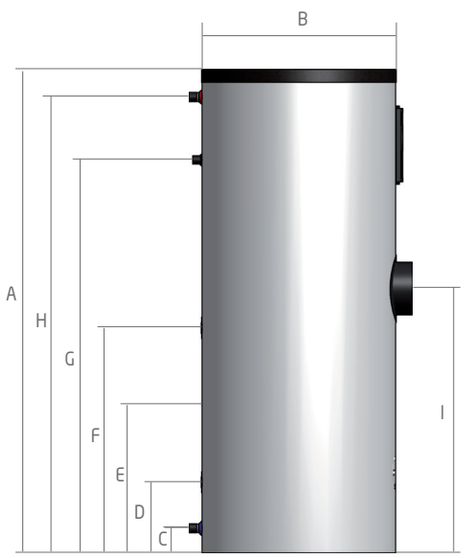
AQUA HOT-Water Storage Tanks

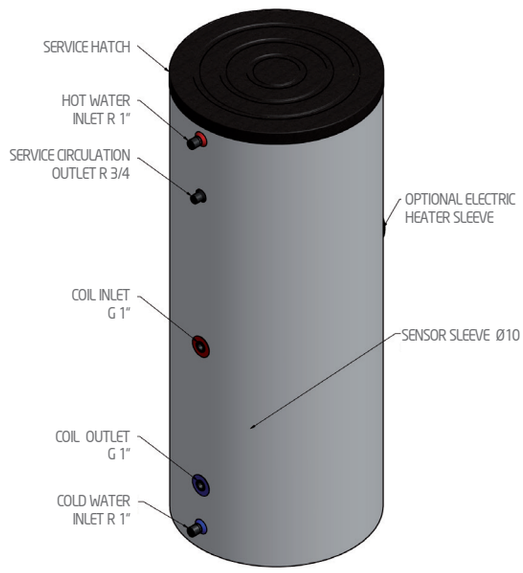
baymak

AQUA SINGLE COIL HOT-WATER STORAGE TANKS

- Used for the preparation and storage of hot water
- Large capacity range with 80 - 1000 *l* models
- Produces hot water quickly by means of coil
- Running water hygiene certificate (PZH)
- Vertical typed, takes a small place
- Hot water cylinders' interior surfaces are hygienic with high-tech titanium doped enamel-coating
- Keeps the water temperature for a long time with 50 mm polyurethane insulation
- All surfaces come into contact with clean water are hygienic and smooth that does not allow bacterial growth
- Protected against corrosion by a magnesium anode stick
- Thermometer is used in all the models
- Hot-water cylinder's body and coil material are composed of St 37/2 steel
- Electric heater (optional)
- Working pressure 8 bars, Test Pressure 13 bars

Hot-Water Storage Tank Technical Specifications





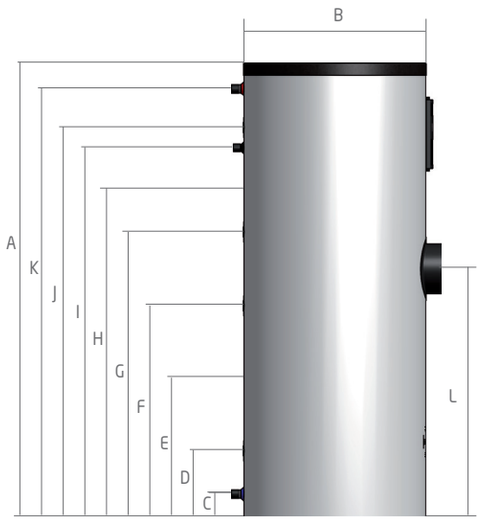
Technical Data Sheet

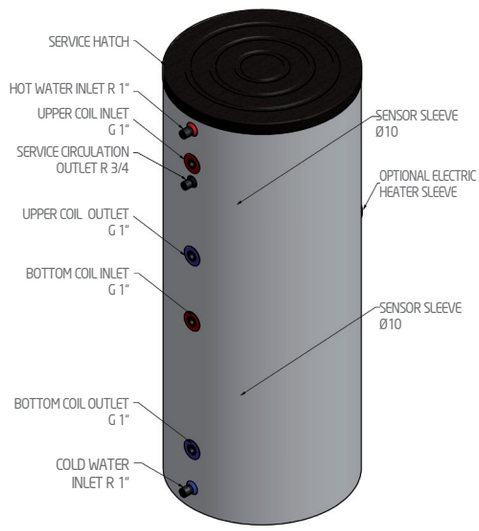
MEASURE	DEFINITION		CAPACITY									
			T 80L	T 100L	T 120L	T 160L	T 200L	T 300L	T 400L	T 500L	T 800L	T 1000L
A	Height	mm	845	1000	825	1125	1280	1210	1560	1860	1700	2045
B	Insulated Diameter	mm	500	500	600	600	600	740	740	740	1050	1050
C	Tap Water Inlet	mm	70	70	80	80	80	85	85	85	115	115
D	Coil Outlet	mm	220	220	245	245	245	280	280	280	310	310
E	Sensor Sleeve	mm	350	400	420	375	520	555	605	650	770	1015
F	Coil Inlet	mm	505	550	505	600	650	685	780	875	1000	1240
G	Service Circulation Outlet	mm	635	790	600	785	935	875	1225	1525	1245	1595
H	Hot Water Outlet	mm	790	945	760	1060	1210	1135	1490	1785	1565	1915
I	Electric Heater Connection Sleeve	mm	-	-	-	650	690	725	870	1020	1075	1310
	Water Inlet-Outlet Diameter	inch	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"
	Service Circulation Outlet Diameter	inch	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"
	Coil Input-Outlet Diameter	inch	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"
	Electric heater Connection Sleeve	inch	-	-	-	G 1 1/2"	G 1 1/2"	G 2"	G 2"	G 2"	G 2"	G 2"
	Cleaning Hatch		-	-	-	-	-	DN100	DN100	DN100	DN250	DN250
	Weight	kg	38	43	54	81	90	110	178	200	260	295

AQUA DOUBLE COIL HOT-WATER STORAGE TANKS

- Used together with Solar Collectors and Heating Boiler System for the purpose of preparation and storage of hot water
- Large capacity range with 160 - 1000 *l* models
- Produces hot water quickly by means of coil
- It has running water hygiene certificate (PZH)
- Vertical typed, takes a small place
- Hot water cylinders' interior surfaces are hygienic with high-tech titanium doped enamel-coating
- Keeps the water temperature for a long time with 50 mm polyurethane insulation
- All surfaces come into contact with clean water are hygienic and smooth that does not allow bacterial growth
- Protected against corrosion by a magnesium anode stick
- Thermometer is used in all the models
- Hot-water cylinder's body and coil material are composed of St 37/2 steel
- Electric heater (optional)
- Working pressure 8 bars, Test Pressure 13 bars

Hot-Water Storage Tank Technical Specifications

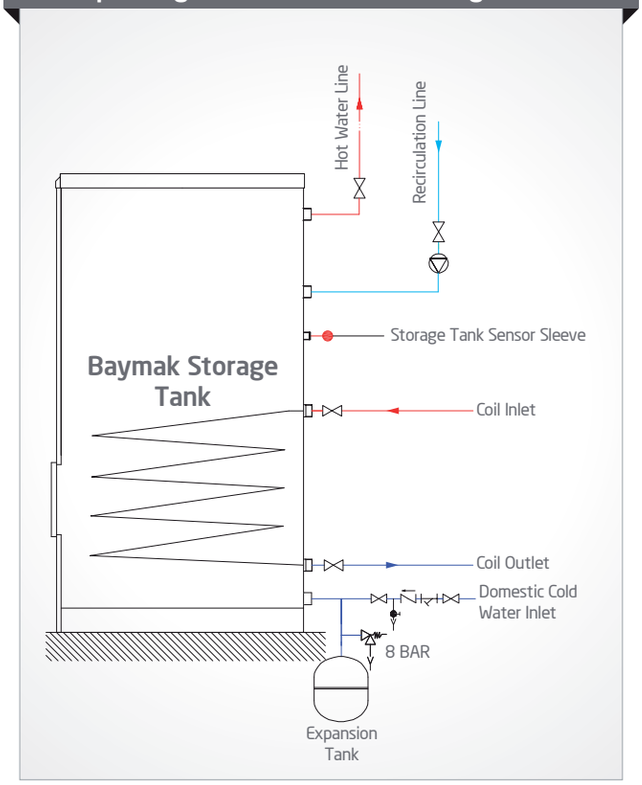




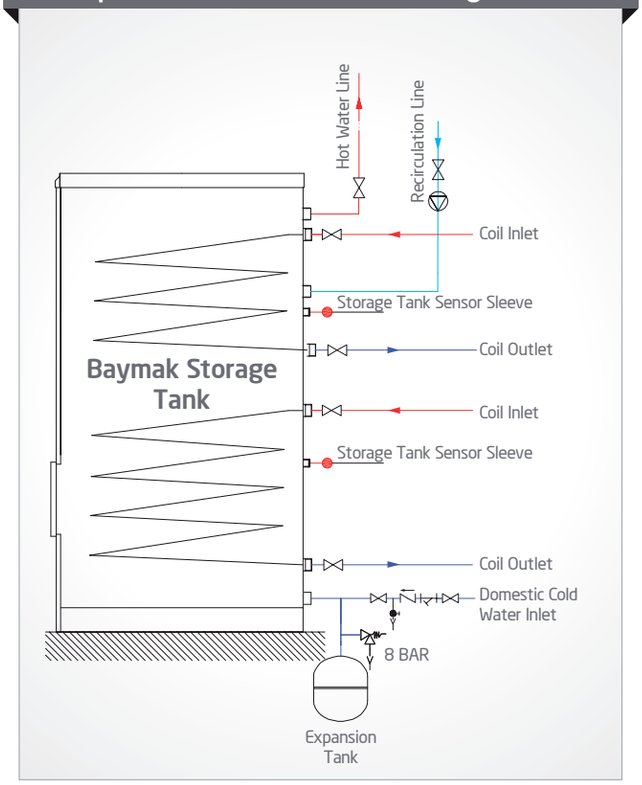
Technical Data Sheet

MEASURE	DEFINITION		CAPACITY									
			C 80L	C 100L	C 120L	C 160L	C 200L	C 300L	C 400L	C 500L	C 800L	C 1000L
A	Height	mm	-	-	-	1125	1280	1210	1560	1860	1700	2045
B	Insulated Diameter	mm	-	-	-	600	600	740	740	740	1050	1050
C	Tap Water Inlet	mm	-	-	-	80	80	85	85	85	115	115
D	Bottom Coil Outlet	mm	-	-	-	245	245	280	280	280	310	310
E	Bottom Sensor Sleeve	mm	-	-	-	375	520	555	605	650	770	1015
F	Bottom Coil Inlet	mm	-	-	-	600	650	685	780	875	1000	1240
G	Upper Coil Outlet	mm	-	-	-	705	740	795	975	1180	1380	1435
H	Upper Sensor Sleeve	mm	-	-	-	785	890	875	1155	1405	1500	1605
I	Service Circulation Outlet	mm	-	-	-	785	935	875	1225	1525	1245	1595
J	Upper Coil Inlet	mm	-	-	-	870	1025	960	1310	1610	1665	1770
K	Hot Water Outlet	mm	-	-	-	1060	1210	1135	1490	1785	1565	1915
L	Electric Heater Connection Sleeve	mm	-	-	-	650	690	725	870	1020	1075	1310
	Water Inlet-Outlet Diameter	inch	-	-	-	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"
	Service Circulation Outlet Diameter	inch	-	-	-	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"	R 3/4"
	Coil Input-Outlet Diameter	inch	-	-	-	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"	G 1"
	Electric heater Connection Sleeve	inch	-	-	-	G 1 1/2"	G 1 1/2"	G 2"	G 2"	G 2"	G 2"	G 2"
	Cleaning Hatch		-	-	-	-	-	DN100	DN100	DN100	DN250	DN250
	Weight	kg	-	-	-	86	98	116	190	218	276	308

Aqua Single Coil Hot - Water Storage Tanks



Aqua Double Coil Hot-Water Storage Tanks



Hot-Water Cylinder Technical Specifications

Hot-Water Cylinders are welded based on using fully automated manufacturing methods. Thus they were created at the highest level of manufacturing quality and errors caused by human factor are totally eliminated.

For the hot-water cylinder tanks to be enamel coated, products recommended as steel appropriate for enamel-coating are used. If the tank is coated with steel unqualified for enamelling, the enamel-coating poured out from the sheet in a very short period of time and tank is easily punctured due to corrosion.

At Baymak Enamel Coating Plants, robots controlled by PLC Units are used for cleaning, drying, enamelling and firing processes of the tanks. All process stages are free of human factor and the probability of error has been eliminated. Hot-Water Cylinder tanks has been designed in accordance with enamelling. Tanks to be enamel coated include special construction details compared to other tanks. Hot-water cylinder tanks with their special design are completely compliant for enamel coating process and since there is not any enamel defect, long-term tank life is ensured.

The inner surface of hot-water cylinder tanks is enamel coated. Enamel coating of the inner surface of the tank means that the inner surface of the tank is coated with glass. Thus, the hygiene of the ambient that running water is stored is maintained in the best way and corrosive materials in the water are prevented from damaging tank's plate.

Resistance of the tank against water corrosion is not ensured by tank plate's thickness but by quality of the enamel coated.

There is titanium material in all types of enamel used to coat tanks in which the running water is stored.

HOT WATER GROUP

HOT WATER GROUP

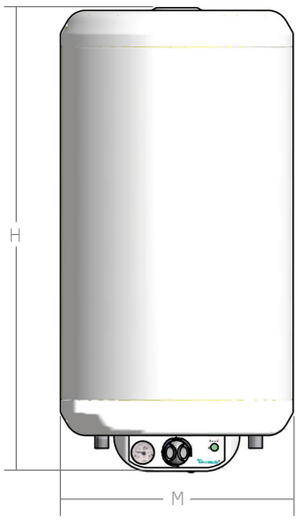
ELECTRIC WATER HEATERS

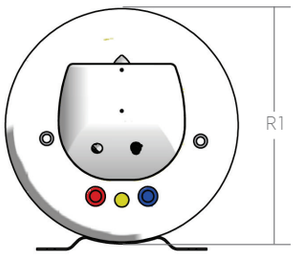
baymak

AQUA CYLINDRICAL ELECTRIC WATER HEATERS

- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Flawless thermal insulation with 20 mm thick and 42 kg/m^3 polyurethane
- Protected against corrosion with Mg-anode
- 4 different capacities to respond to the needs of all types of hot water
- Maximum level of safety is provided by four individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (35 - 75 °C)
  - Protection of the safety thermostat (92 °C)
  - Provides protection against high current with 16 Amp fuse

Electric Water Heater Technical Specifications





Water Temperature Setting;

The user can adjust the Electrical Water Heater according to the desired temperature by means of setting thermostat and setting button placed on the control panel.

MEASURES		MTK 50	MTK 65	MTK 80	MTK 100
H	(mm)	640	765	885	1050
M	(mm)	445	445	445	445
R1	(mm)	460	460	460	460

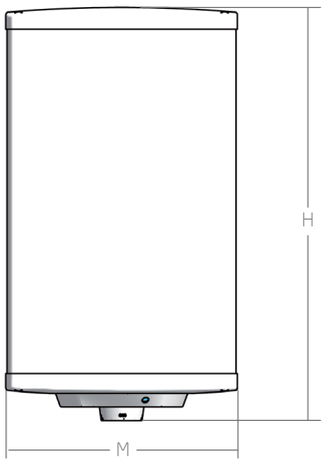
Technical Data Sheet

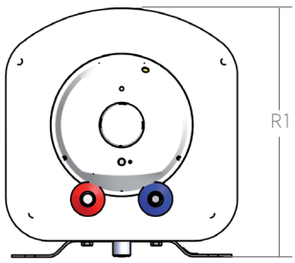
FEATURE		MODEL			
		MTK 50	MTK 65	MTK80	MTK 100
Capacity	l	50	65	80	100
Voltage / Current	V / A	230 / 9	230 / 9	230 / 9	230 / 9
Power	watt	2000	2000	2000	2000
Working Pressure	bar	8	8	8	8
Pipe diameters	inch	1/2	1/2	1/2	1/2
Water Temperature Setting	°C	35 - 75	35 - 75	35 - 75	35 - 75
Empty Weight	kg	20	26	30	34
Height	mm	640	765	885	1050
Width	mm	445	445	445	445
Depth	mm	460	460	460	460
Box Dimensions	cm	50*50*68	50*50*80	50*50*92	50*50*110
Tank		Titanium Doped Enamel Coated Steel			

OVER SINK / UNDER SINK ELECTRIC WATER HEATERS

- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Flawless thermal insulation with 20 mm thick and 42 kg/m^3 polyurethane
- Protected against corrosion with Mg-anode
- 2 different capacities to respond to the needs of all types of hot water
- Maximum level of safety is provided by 3 individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (constant 35 °C - 75 °C)
  - Protection of the safety thermostat (92 °C)

Electric Water Heater Technical Specifications





MEASURES		TA 15 - TÜ 15	TA 30 - TÜ 30
H	(mm)	450	610
M	(mm)	345	345
R1	(mm)	365	365

Technical Data Sheet

FEATURE		MODEL TA 15 - TÜ 15	MODEL TA 30 - TÜ 30
Capacity	l	15	30
Voltage / Current	V / A	230 / 7	230 / 7
Power	watt	1.500	1.500
Working Pressure	bar	8	8
Pipe diameters	inch	1/2	1/2
Water Temperature Setting	°C	35 - 75	35 - 75
Empty Weight	kg	11	14
Height	mm	450	610
Width	mm	345	345
Depth	mm	365	365
Box Dimensions	cm	40*47*40	40*62*40
Tank	Titanium Doped Enamel Coated Steel		

AQUA PRISMATIC JET ELECTRICAL WATER HEATERS

- Thanks to double speed (2x2000w heater), saves time.
- Whether single or double heater using
- Simply using with LCD screen
- Digital Control Panel with programmable function
- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Protected against corrosion with Mg-anode
- 4 different capacities to respond to the needs of all types of hot water
- Anti-legionella function
- Boil dry protection function
- Over-temperature prevention function
- Frost protection function
- The child lock function
- Fault Alert Function
- Flawless thermal insulation with min. 30 mm and max. 64 mm thick and 42 kg/m^3 polyurethane
- Maximum level of safety is provided by 4 individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (40-80°C)
  - Protection of the safety thermostat (92 °C)
  - Provides protection against high current with 25 Amp fuse

Electric Water Heater Technical Specifications

Aqua LCD Prismatic is electronic controlled and designed by considering everything for your and your loved ones safety and comfort.

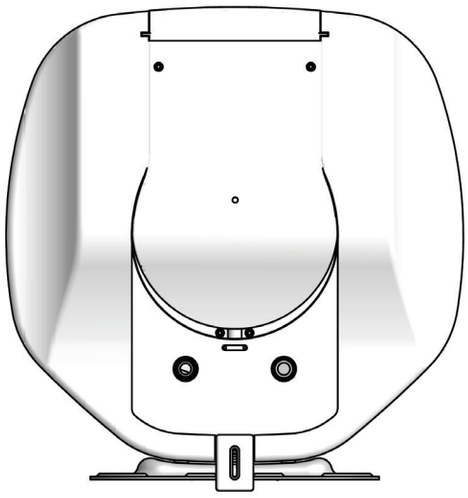
Technical Data Sheet

FEATURE		MODEL			
		JET 50	JET 65	JET 80	JET 100
Capacity	l	50	65	80	100
Heating Power	watt	2000x2	2000x2	2000x2	2000x2
Working Range	°C	40-80	40-80	40-80	40-80
Working Pressure	bar	8	8	8	8
Safety Valve		Available	Available	Available	Available
Protection Against Corrosion		Mg Anode	Mg Anode	Mg Anode	Mg Anode
Safety Thermostat		Available	Available	Available	Available
Frost Protection		Available	Available	Available	Available
Child Lock		Available	Available	Available	Available
Legionella Protection		Available	Available	Available	Available
Temperature Display		Digital	Digital	Digital	Digital
Isolation		CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane
Water Connection	inch	1/2"	1/2"	1/2"	1/2"
Width	mm	460	460	460	460
Length	mm	460	460	460	460
Height	mm	650	770	990	1060
Tank		Titanium Doped Enamel Coated Steel			

AQUA LCD PRISMATIC ELECTRIC WATER HEATERS

- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Flawless thermal insulation with min. 30 mm and max. 64 mm thick and 42 kg/m^3 polyurethane
- Protected against corrosion with Mg-anode
- 4 different capacities to respond to the needs of all types of hot water
- Maximum level of safety is provided by 4 individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (40 - 80 °C)
  - Protection of the safety thermostat (92 °C)
  - Provides protection against high current with 16 Amp fuse
- Anti-legionella function
- Boil dry protection function
- Over-temperature prevention function
- Frost protection function
- The child lock function
- Programmable function digital control panel
- LCD Display daily programming

Electric Water Heater Technical Specifications



Aqua LCD Prismatic is electronic controlled and designed by considering everything for your and your loved ones safety and comfort.

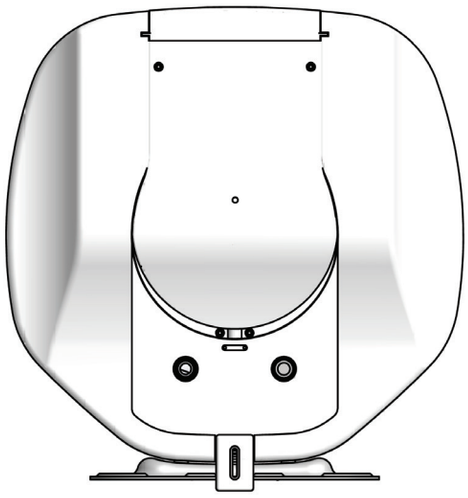
Technical Data Sheet

FEATURE		MODEL			
		LCD 50	LCD 65	LCD 80	LCD 100
Capacity	l	50	65	80	100
Heating Power	watt	2000	2000	2000	2000
Working Range	°C	40-80	40-80	40-80	40-80
Working Pressure	bar	8	8	8	8
Safety Valve		Available	Available	Available	Available
Protection Against Corrosion		Mg Anode	Mg Anode	Mg Anode	Mg Anode
Safety Thermostat		Available	Available	Available	Available
Frost Protection		Available	Available	Available	Available
Child Lock		Available	Available	Available	Available
Legionella Protection		Available	Available	Available	Available
Temperature Gauge		Digital	Digital	Digital	Digital
Isolation		CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane
Water Connection	inch	1/2"	1/2"	1/2"	1/2"
Width	mm	460	460	460	460
Length	mm	460	460	460	460
Height	mm	650	770	990	1060
Tank		Titanium Doped Enamel Coated Steel			

AQUA COMFORT PRISMATIC ELECTRIC WATER HEATERS

- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Flawless thermal insulation with min. 30 mm and max. 64 mm thick and 42 kg/m^3 polyurethane
- Protected against corrosion with Mg-anode
- 4 different capacities to respond to the needs of all types of hot water
- Maximum level of safety is provided by 4 individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (35 - 75 °C)
  - Protection of the safety thermostat (92 °C)
  - Provides protection against high current with 16 Amp fuse

Electric Water Heater Technical Specifications



The user can adjust the Electrical Water Heater according to the desired temperature by means of setting thermostat and setting button placed on the control panel.

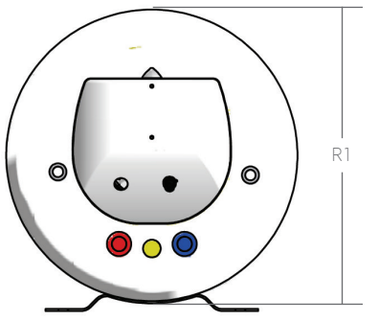
Technical Data Sheet

FEATURE		MODEL			
		COMFORT 50	COMFORT 65	COMFORT 80	COMFORT 100
Capacity	l	50	65	80	100
Heating Power	watt	2000	2000	2000	2000
Working Range	°C	35-75	35-75	35-75	35-75
Working Pressure	bar	8	8	8	8
Safety Valve		Available	Available	Available	Available
Protection Against Corrosion		Mg Anode	Mg Anode	Mg Anode	Mg Anode
Safety Thermostat		Available	Available	Available	Available
Temperature Gauge		Available	Available	Available	Available
Isolation		CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane	CFC-free polyurethane
Water Connection	inch	1/2"	1/2"	1/2"	1/2"
Width	mm	460	460	460	460
Length	mm	460	460	460	460
Height	mm	650	770	990	1060
Tank	Titanium Doped Enamel Coated Steel				

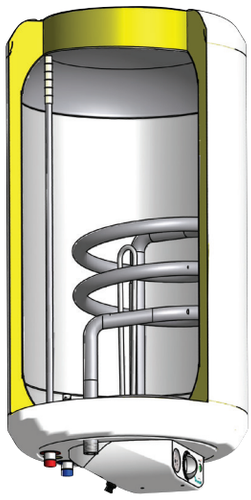
AQUA ELECTRIC WATER HEATERS WITH COIL

- Titanium doped, double enamel-coated steel inner tank is long-lasting and hygienic
- Flawless thermal insulation with 20 mm thick and 42 kg/m^3 polyurethane
- Protected against corrosion with Mg-anode
- Running water hygiene certificate (PZH)
- Saves energy with water heater that utilizes electrical energy and as well as other heating sources (central heating, solar energy, etc.)
- 3 different capacities to respond to the needs of all types of hot water
- Maximum level of safety is provided by 4 individual safety systems
  - Protection through safety valve with check valve against increases in pressure
  - Operation thermostat (35 - 75 °C)
  - Protection of the safety thermostat (92 °C)
  - Provides protection against high current with 16 Amp fuse

Electric Water Heater Technical Specifications



Electric water heaters with coil are single coil hot water tanks that boils and stores the water inside via electric energy as well as an auxiliary heat source (heater, central heating system boiler, solar energy system and geothermal heating). It is a product that heats the water inside by circulating the hot water from the auxiliary heating source through water heater coils; also it does not require electric power if the temperature in running water is sufficient, therefore provides the possibility of saving electricity.



MEASURE		SMTK 65	SMTK 80	SMTK 100
H	(mm)	765	885	1050
M	(mm)	445	445	445
R1	(mm)	460	460	460

Technical Data Sheet

FEATURE		MODEL		
		SMTK 65	SMTK 80	SMTK 100
Capacity	l	65	80	100
Voltage / Current	V / A	230 / 9	230 / 9	230 / 9
Power	watt	2000	2000	2000
Working Pressure	bar	8	8	8
Pipe diameters	inch	1/2	1/2	1/2
Water Temperature Setting	°C	35 - 75	35 - 75	35 - 75
Empty Weight	kg	26	30	34
Height	mm	765	895	1050
Width	mm	445	445	445
Depth	mm	460	460	460
Box Dimensions	cm	50*50*80	50*50*92	50*50*110
Tank		Titanium Doped Enamel Coated Steel		

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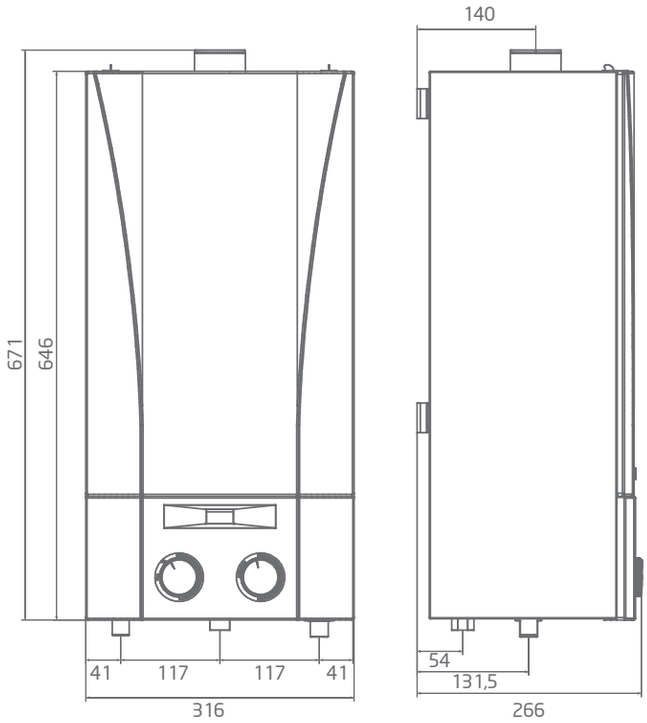
HERMETIC GAS WATER HEATERS
(BH 11 - 13)

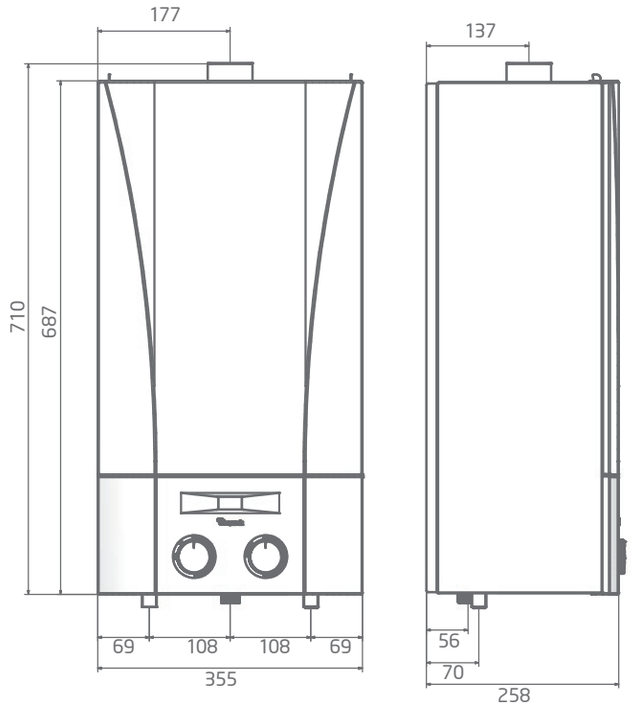
BH 11 - 13

- 11 - 13 *l* / min of hot water capacity
- Hermetic flue system
- Instant monitoring of outlet water temperature with LCD control panel
- Electronic ignition and flame modulation
- Fault warning system
- Water temperature adjustment range 35 - 60 °C
- Flue blockage safety system
- Overheat safety system
- Flame control safety system
- Capability to use with natural gas or LPG
- Full protection function against frost

Gas Water Heater Technical Specifications



BH 11



BH 13

Technical Data Sheet

FEATURE			MODEL BH 11	MODEL BH 13
Brand / Model			Baymak / BH 11	Baymak / BH 13
Product Description			Hermetic Gas Heater	Hermetic Gas Heater
Ignition Type			Electronic Ignition	Electronic Ignition
Gas Category			II 2H3B/P	II 2H3B/P
Nominal Heat Power		kW	19,4	23,4
		kcal/h	16.684	19.780
Nominal Heat Load		kW	22,8	26,2
		kcal/h	19.608	22.660
Gas Inlet Pressure	Natural Gas	mbar	20	20
	LPG	mbar	30	30
Hot Water Capacity (ΔT = 25 °C)		l/min	3 - 11	3 - 13
Water Temperature Setting Range		°C	35 - 60	35 - 60
Hermetic Flue Diameter		mm	Ø60 / 100	Ø60 / 100
Hot Water Inlet / Cold Water Outlet Connections			1/2"	1/2"
Electrical Connection			AC 230 V - 50 Hz	AC 230 V - 50 Hz
Electric Power		watt	55	55
Gas Inlet Connection			3/4"	3/4"
Dimensions	Net	mm	266 x 316 x 646	710 x 355 x 255
	Packaged	mm	326 x 376 x 681	776 x 415 x 290
Weight	Net	kg	13,5	17
	Packaged	kg	15	18,5

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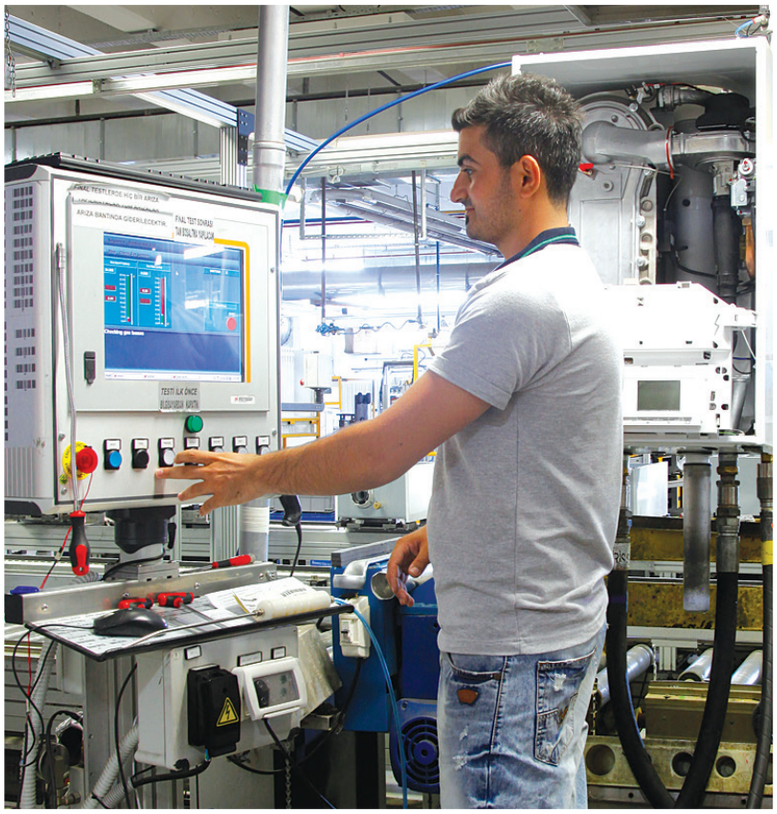


Solar Energy Systems
Believe the Power of Nature

Various technologies have been developed in order to take the advantage of the sun which has endless source of energy. Some of these technologies are directly utilized for lighting or heating through solar energy, whereas some others are used to produce electricity from solar power. High-tech Baymak solar systems benefit from the sun rays both for heating the water and to produce electricity from the sun. These systems that are used to provide necessary hot water or to heat an area, can also be used to produce electric power. Baymak, by means of his technological investments, is committed to benefit maximum utility from the sun which is a source of renewable energy.

SOLAR ENERGY SYSTEMS

- PV ENERGY SYSTEMS
- INVERTER
- SOLAR COLLECTORS
- ADVANCED SERIES (X - XL)
- ESSENTIAL BLACK SERIES (X - XL)
- ESSENTIAL SERIES (X - XL)
- APOLLO S SERIES (X - XL)
- APOLLO E SERIES (X - XL)
- SOLAR THERMAL PACKAGE SYSTEMS

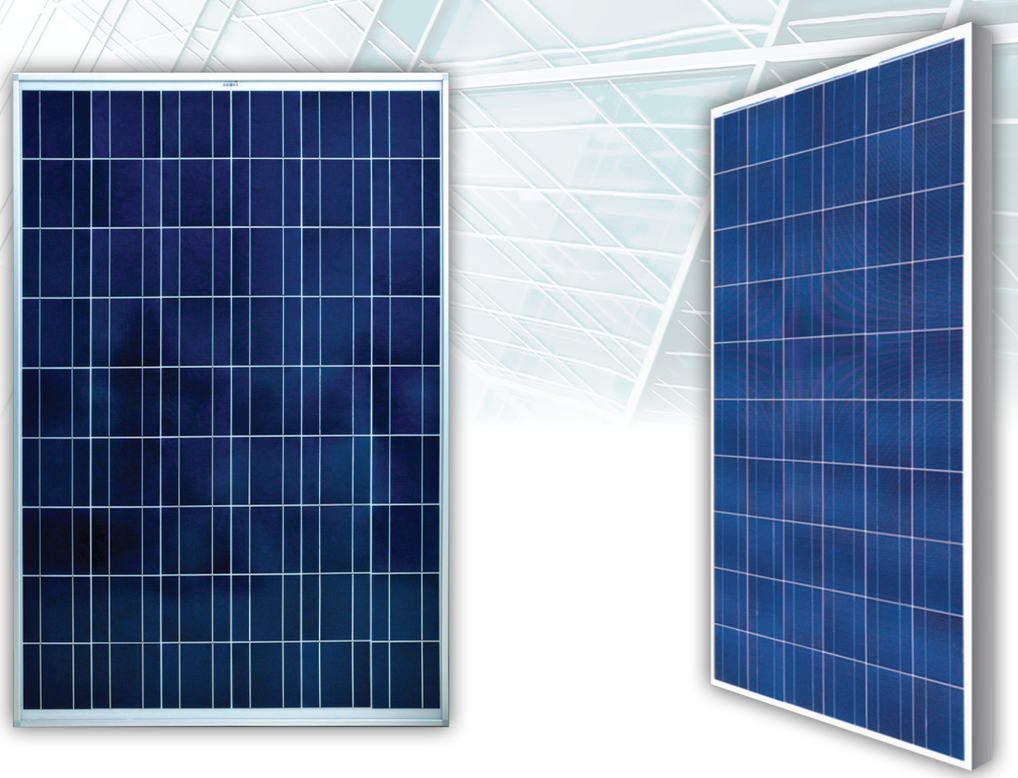
SOLAR ENERGY SYSTEMS

SOLAR ENERGY SYSTEMS

PV Energy Systems

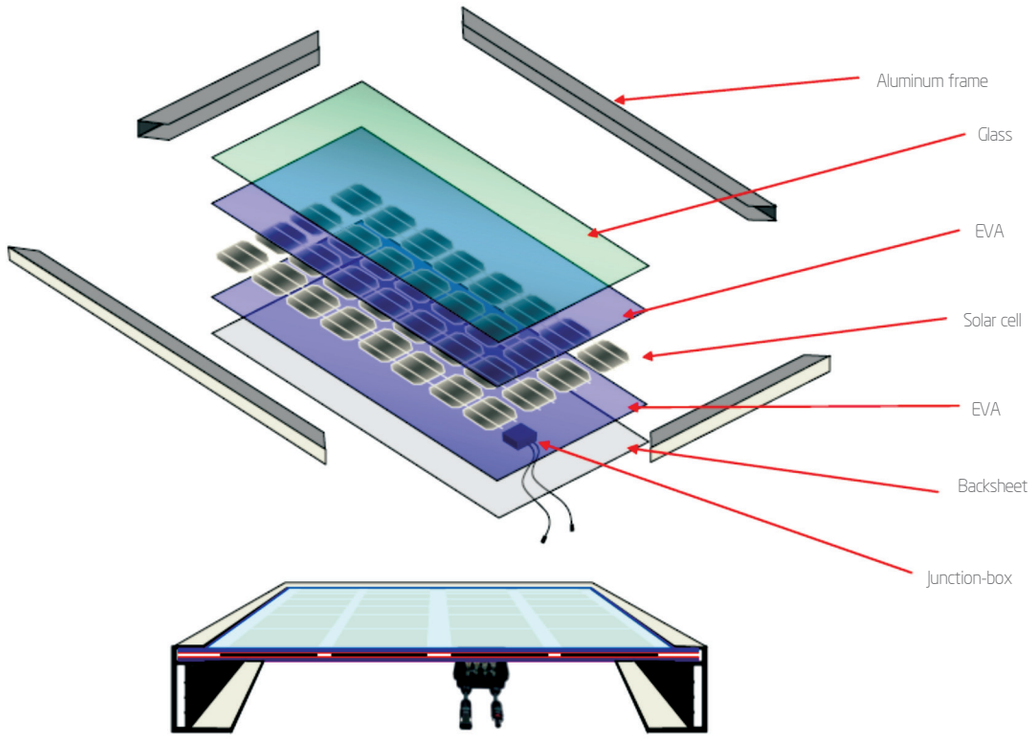
baymak

PV ENERGY SYSTEMS



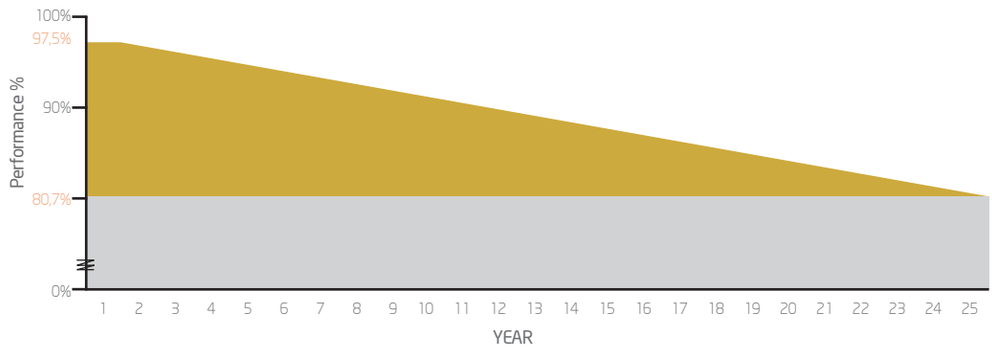
- 260 Wp
- Number of cells: 60
- High efficiency modules made of polycrystalline cell technology
- 10 year product warranty, 25-year performance warranty, 45-year useful life
- Industry standards: IEC 61215, IEC 61730 certified
- Optimum results even under low radiation
- Special technology which traps inside the image
- Shock and wind resistant 3,2 mm tempered glass
- Protection against corrosion and UV rays
- Maximum performance with the help of positive tolerance up to 5 watt

Panel Components



SOLAR ENERGY SYSTEMS

Performance Guarantee



- 10 year warranty
- 25 year 80% efficiency guarantee

Baymak panels' performance and system production values are under performance guarantee for 25 years. The amount of electricity generated by the system for 25 years is exactly calculated by ± 5% deviation. In this way, investors can clearly see their gain.

Certificates

- IEC 61215/61730-1/61730-2
- TS EN ISO 9001
- TS EN ISO 14001
- TS ISG OHSAS 18001
- TSE HYB 12690

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IEC

ISO International Organization for Standardization

CE

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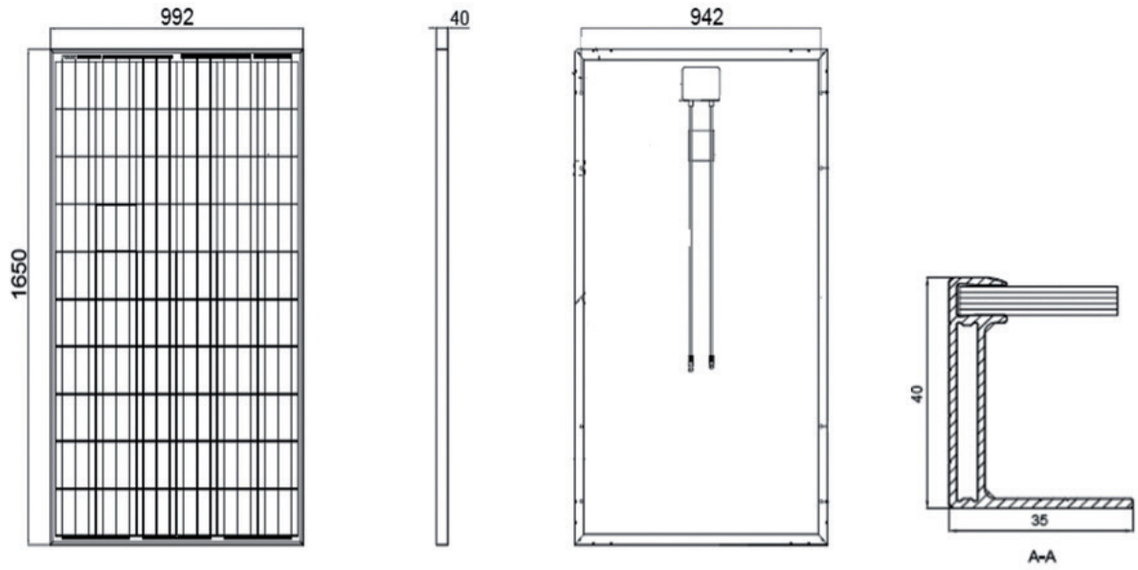


Electrical Data (Typical)					
Module Description	Peak Power (Mpp[1])	Voltage at Mpp[1]	Current at Mpp[1]	Open Circuit Voltage	Short Circuit Current
JKM260P	260 Wp	31,1	8,37 A	38,10 V	8,98 A

1 Mpp; Operation values at maximum power point. The above values are indicated under the values of the standard test conditions of 1000 W/m², AM 1.5 and 25 °C.

Mechanical Specifications	
Size (h x w x d)	1650 x 992 x 40 mm
Module Area	1,64 m²
Weight	19 kg
Number of cells	60 th
Cell Structure	Poly Si 6" (156 mm x 156 mm)
Diodes	3 by-pass diode (Tyco SL 1515; 16A)
Windshield	3,2 mm prismatic, safety glass, Trakya Glass
Back Cover	AAA Isolvolta
Frame	Anodized aluminum frame

Temperature Coefficients	
Tc. Voltage	-0,31 %K
Tc. Mpp Power	0,41 %K
NOCT[2]	45 ± 2°C

Allowable Operating Conditions	
Temperature Range	(-40) - (+85) °C
Maximum System Voltage	1000 V

2 NOCT; Nominal cell operating temperature (measurement conditions: radiation of 800 W/m², atmospheric pressure of AM 1.5 ambient temperature of 25 °C, wind velocity of 1 m/s)
3 Productivity decrease (as the measurement condition is reduced from radiation value of 1000 W/m² to radiation value of 200 W/m²)

INVERTER

Inverter Technical Specifications

In order to use the energy produced by the PV modules for domestic use or for other places, it should be converted to AC. The inverters are devices that convert DC into AC. Inverters can be worked both as non-grid-connected or as grid-connected inverters. Different products and technologies specific for both applications are available.

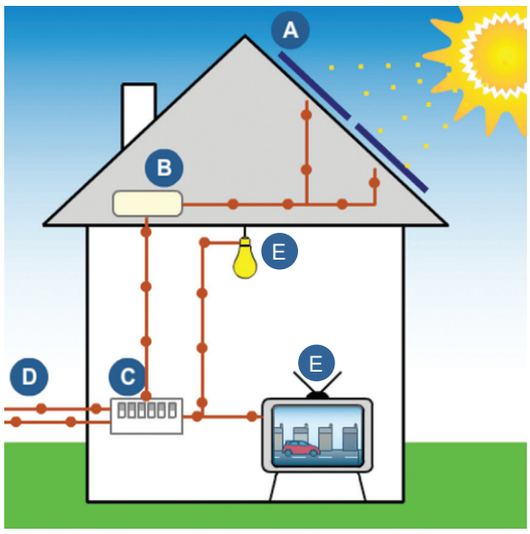
MODELS	Fronius Primo 3.0-1	Fronius Primo 5..0-1
INPUT DATA		
Max. input current (Idc max 1 / Idc max 2)	12.0 A / 12.0 A	12.0 A / 12.0A
Max. array short circuit current (MPP1/MPP2)	18.0 A / 18.0 A	18.0 A / 18.0 A
Min. input voltage (Udc min)	150 V	150 V
Feed-in start voltage (Udc, start)	200 V	200 V
Nominal input voltage (Udc, r)	650 V	650 V
Max. Eingangsspannung (Udc max)	1,000 V	1,000 V
MPP voltage range (Umpp min - Umpp max)	200 - 800 V	240 - 800 V
Number MPP trackers	2	2
Number of DC connections	2 + 2	2+ 2
OUTPUT DATA		
AC nominal output (Pac, r)	3,000 W	5,000 W
Max. output power	3,000 VA	5,000 VA
Max. output current (Iac max)	15.2 A	25A
Grid connection (voltage range)	1 ~ NPE 220 V / 230 V (180 V - 270 V)	1 ~ NPE 220 V / 230 V (180 V - 270 V)
Frequency (Frequency range)	50 Hz / 60 Hz	50 Hz / 60 Hz
Total harmonic distortion	< 5 %	< 5 %
Power factor (cos ϕ ac, r)	0.85 - 1 end. / cap.	0.85 - 1 end. / cap
GENERAL DATA		
Dimensions (height x width x depth)	645 x 431 x 204 mm	645 x 431 x 204 mm
Weight	21.5 kg	21.5 kg
Degree of protection	IP 65	IP 65
Protection class	1	1
Overvoltage category (DC / AC)	2/3	2/3
Night time consumption	< 1 W	< 1 W
Inverter design	Transformerless	Transformerless
Cooling	Regulated air cooling	Regulated air cooling
Installation	Indoor and outdoor installation	Indoor and outdoor installation
Ambient temperature range	-40°C / +55°C	-40°C / +55°C arasında
Permitted humidity	0 % to 100 %	0 % to 100 %
DC connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm131
Mains connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm131

MODELS	Fronius Symo 3.0-3-S	Fronius Symo 4.5-3-S
INPUT DATA		
Max. input current (Idc max 1 / Idc max 2)	16 A	16 A
Max. array short circuit current (MPP1/MPP2)	24 A	24 A
Min. input voltage (Udc min)	150 V	150 V
Feed-in start voltage (Udc, start)	200V	200 V
Nominal input voltage (Udc, r)	260 V	595 V
Max. Eingangsspannung (Udc max)	420 V	1000 V
MPP voltage range (Umpp min - Umpp max)	120 - 335 V	300 - 800 V
Number MPP trackers	1	1
Number of DC connections	3	3
OUTPUT DATA		
AC nominal output (Pac, r)	2,000 W	4.500 W
Max. output power	2,000 VA	4.500 VA
Max. output current (Iac max)	9.7 A	9,0 A
Grid connection (voltage range)	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V
Min. Output Voltage (Uac min)	150 V	150 V
Max. Output Voltage (Uac max)	275 V	275 V
Frequency (Frequency range)	50 Hz / 60 Hz	50 Hz / 60 Hz
Frequncy Range (fmin - fmax)	46-65 Hz	46 - 65 Hz
Total harmonic distortion	< % 3	< % 3
Power factor (cos ϕ ac, r)	0,7 - 1 end. / cap.	0,7 - 1 end. / cap.
GENERAL DATA		
Dimensions (height x width x depth)	645 x 431 x 204 mm	645 x 431 x 204 mm
Weight	16 kg	16,0 kg
Degree of protection	IP 65	IP 65
Protection class	1	1
Overvoltage category (DC / AC)	2/3	2/3
Night time consumption	< 1 W	< 1 W
Inverter design	Transformerless	Transformerless
Cooling	Regulated air cooling	Regulated air cooling
Installation	Indoor and outdoor installation	Indoor and outdoor installation
Ambient temperature range	-25°C / +60°C	-25°C / +60°C
Permitted humidity	% 0 - %100	% 0 - % 100
DC connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm²
Mains connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm²
Certificates and Compliance with Norms	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G83/2, UNE 206007-1, SI 4777 , CEI 0-21	

MODELS	Fronius Symo 10.0-3- M	Fronius Symo 15.0-3-M	Fronius Symo 20.0-3-M
INPUT DATA			
Max. input current (Idc max 1 / Idc max 2)	27.0 A / 16.5 A	33.0 A / 27.0 A	33.0A / 27.0A
Max. array short circuit current (MPP1/MPP2)	24.0 A / 24.0 A	49.5 A / 40.5	49.5A / 40.5
Min. input voltage (Udc min)	150 V	200 V	200 V
Feed-in start voltage (Udc, start)	200 V	200 V	200 V
Nominal input voltage (Udc, r)	595 V	600 V	600 V
Max. Eingangsspannung (Udc max)	1,000 V	1,000 V	1,000 V
MPP voltage range (Umpp min - Umpp max)	228 - 800 V	320 - 800 V	420 - 800 V
Number MPP trackers	2	2	2
Number of DC connections	2 + 2	3 + 3	3 + 3
OUTPUT DATA			
AC nominal output (Pac, r)	10,000 W	15,000 W	20,000 W
Max. output power	10,000 VA	15,000 VA	20,500 VA
Max. output current (Iac max)	16.0 A	23.9 A	20 A
Grid connection (voltage range)	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V
Frequncy Range (fmin - fmax)	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Total harmonic distortion	< 2 %	< 2 %	< 2 %
Power factor (cos ϕ ac, r)	0 - 1 end. / cap.	0 - 1 end. / cap.	0 - 1 end. / cap.
GENERAL DATA			
Dimensions (height x width x depth)	725 x 510x 225 mm	725 x 510 x 225 mm	725 x 510 x 225 mm
Weight	34.8 kg	43.4 kg	43.4 kg
Degree of protection	IP 66	IP 66	IP 66
Protection class	1	1	1
Overvoltage category (DC / AC)	2/3	2/3	2/3
Night time consumption	< 1 W	< 1 W	< 1 W
Inverter design	Transformerless	Transformerless	Transformerless
Cooling	Regulated air cooling	Regulated air cooling	Regulated air cooling
Installation	Indoor and outdoor installation	Indoor and outdoor installation	Indoor and outdoor installation
Ambient temperature range	-25°C / +60°C	-25°C / +60°C	-25°C / +60°C
Permitted humidity	0 % to 100 %	0 % to 100 %	0 % to 100 %
DC connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm	Screw terminals 2,5 mm² - 16 mm
Mains connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm	Screw terminals 2,5 mm² - 16 mm
Certificates and Compliance with Norms	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G83/2, G59/3, UNE 206007-1, SI 4777, CEI 0-16, CEI 0-21		

MODELS	Fronius Eco 25.0-3-M	Fronius Eco 27.0-3-M
INPUT DATA		
Max. input current (Idc max 1 / Idc max 2)	43.0 A	48.0 A
Max. array short circuit current (MPP1/MPP2)	64.5 A	72.0 A
Min. input voltage (Udc min)	580 V	580 V
Feed-in start voltage (Udc, start)	595 V	595V
Nominal input voltage (Udc, r)	595 V	595V
Max. Eingangsspannung (Udc max)	1,000 V	1000V
MPP voltage range (Umpp min - Umpp max)	580 - 850 V	580 - 850 V
Number MPP trackers	1	1
Number of DC connections	6	6
OUTPUT DATA		
AC nominal output (Pac, r)	24,000 W	27,000 W
Max. output power	24,000 VA	27,000 VA
Max. output current (Iac max)	37.5 A	42.0 A
Grid connection (voltage range)	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V	3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V
Frequency (Frequency range)	50 Hz / 60 Hz	50 Hz / 60 Hz
Total harmonic distortion	< 2 %	< 2 %
Power factor (cos ϕ ac, r)	0 - 1 end. / cap.	0 - 1 end. / cap.
GENERAL DATA		
Dimensions (height x width x depth)	725 x 510 x 225 mm	725 x 510 x 225 mm
Weight	38.0 kg	38.0 kg
Degree of protection	IP 66	IP 66
Protection class	1	1
Overvoltage category (DC / AC)	2/3	2/3
Night time consumption	< 1 W	< 1 W
Inverter design	Transformerless	Transformerless
Cooling	Regulated air cooling	Regulated air cooling
Installation	Indoor and outdoor installation	Indoor and outdoor installation
Ambient temperature range	-25°C / +60°C	-25°C / +60°C
Permitted humidity	0 % to 100 %	0 % to 100 %
DC connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm131
Mains connection technology	Screw terminals 2,5 mm² - 16 mm²	Screw terminals 2,5 mm² - 16 mm131
Certificates and Compliance with Norms	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G83/2, G59/3, UNE 206007-1, SI 4777, CEI 0-16, CEI 0-21	

Construction Applications



A. PV Module
B. Inverter
C. Bi-directional Counter
D. Network
E. Load

Solar Package System Technical Specifications

PRODUCT	MODEL	PCS
	BAYMAK 3 Mono Package System	
PV Solar Panel	JKM 260 Wp	10
INVERTER	Fronius / Primo 3.0-1	1
PANEL	Ges Pano 3 Mono	1
	BAYMAK 3 Tri Package System	
PV Solar Panel	JKM 260 Wp	10
INVERTER	Fronius / Symo 3.0-3-S	1
PANEL	Ges Pano 3 Tri	1
	BAYMAK 5 Mono Package System	
PV Solar Panel	JKM 260 Wp	18
INVERTER	Fronius / SPrimo 5.0.1	1
PANEL	Ges Pano 5 Mono	1
	BAYMAK 5 Tri Package System	
PV Solar Panel	JKM 260 Wp	18
INVERTER	Fronius / SYMO 4.5-3-S	1
PANEL	Ges Pano 5 Tri	1
	BAYMAK 10 Tri Package System	
PV Solar Panel	JKM 260 Wp	38
INVERTER	Fronius / SYMO 10.0-3-M	1
PANEL	Ges Pano 10 Tri	1
	BAYMAK 15 Tri Package System	
PV Solar Panel	JKM 260 Wp	58
INVERTER	Fronius / SYMO 15.0-3-M	1
PANEL	Ges Pano 15 Tri	1
	BAYMAK 20 Tri Package System	
PV Solar Panel	JKM 260 Wp	76
INVERTER	Fronius / SYMO 20.0-3-M	1
PANEL	Ges Pano 20 Tri	1
	BAYMAK 25 Tri Package System	
PV Solar Panel	JKM 260P Wp	96
INVERTER	Fronius / SYMO 25.0-3-M	1
PANEL	Ges Pano 25 Tri	1
	BAYMAK 30 Tri Package System	
PV Solar Panel	JKM 260 Wp	114
INVERTER	Fronius / SYMO 27.0-3-M	1
PANEL	Ges Pano 27 Tri	1

SOLAR ENERGY SYSTEMS

SOLAR ENERGY SYSTEMS

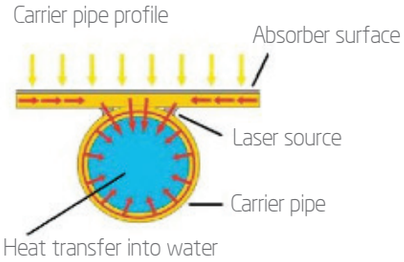
Solar Collectors

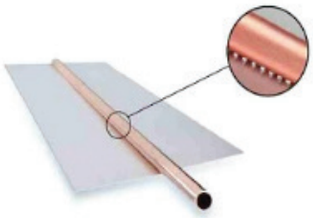
baymak

SOLAR COLLECTORS

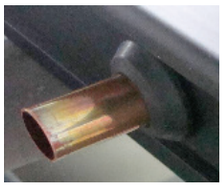
Divided into two applications as automation-assisted and natural circulation. In the automation-assisted system, there are double coil enamel-coated storage tanks and equipments; whereas in the natural circulation systems, there are models with 160/200 and 300 *l* oblique type enamel-coated tanks."

Laser Welding Technology

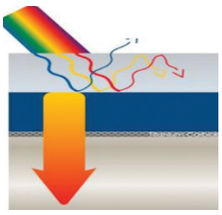




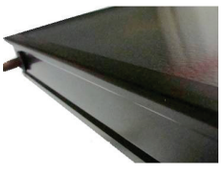
In the new series solar collectors, absorber surfaces and carrier pipes are integrated with laser welding technology.
The major advantage of the LASER welding method is that the welding is applicated without giving any damage and leaving any mark over the selective surface of the absorber plate.



Manifold Gasket: In the new series solar collectors, UV-resistant silicone is used as manifold's retainer gasket in order to prevent water intrusion into the collector due to the facts such as rain and snow. Silicone gasket provides resistance against high temperatures to be formed over the manifold.

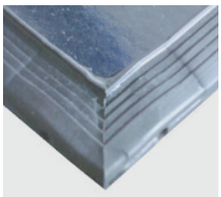


Absorber Plate: The selective absorber surface with titanium nitric oxide coated over copper and aluminum used in the new solar collectors transfers the radiation heat from the sun to the plate at a maximum level and reflection losses that lead to decrease in effciency are eliminated.

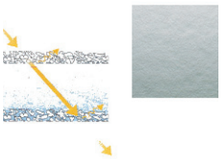


Casing Profile: Chassis used in new series solar collectors is specially designed and thanks to the patented technology, all the elements of the structure is assembled at once.

Laser Welding Technology

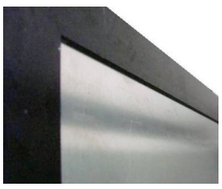


Glass Seal: In the new series solar collectors UV-resistant vulcanized EPDM is used as glass sealing in order to prevent water intrusion into the collector due to the facts such as rain and snow. The glass seal ensures a complete sealing against leakages to be formed over the corner points.

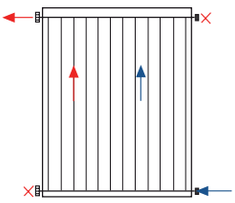


Solar Glass: "Sandy patterned" low-alloyed ferrous tempered glass minimizes the reflection of the sun rays allows them to enter into collector at maximum level. In this way, the efficiency of the collector increases. Sandy patterned glass is produced in Turkey and it is among the highest performance sun collector glasses in Europe.

Insulation: In the new series solar collectors, high thermal insulated and high intensity 40 mm thick rockwool and glasswool are used.



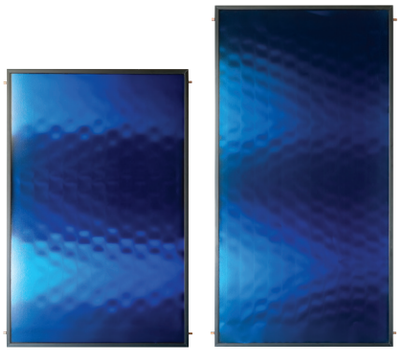
Back Plate: In the new series solar collectors, hardened anodized aluminum and galvanized plate resistant to external factors is used. Back plate provides the highest resistance against physical factors such as transportation, installation, rain, snow, wind and temperature.



Harp System: In order to transfer heat from the high-efficiency glass and selective surface used in the new series solar collectors into the water precisely, the harp system with copper carrier pipe is used.

ADVANCED Series (X - XL)

Technical Specifications



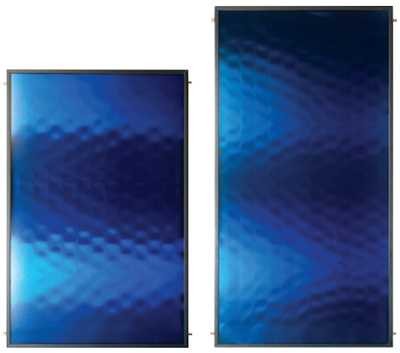
- Long-lasting with the reinforced chassis
- Resistant to shocks with aluminum back plate
- Laser welded pipes provides higher heat transfer
- Special 40 mm thick rockwool insulation prevents heat loss
- 4 mm thick, sandy patterned solar collector glass has high transmittance of light
- Titanium coated absorber surface is made of copper
- Gross surface area: X-Series are 2,00 m² and XL series are 2.51 m²
- Provides safe working conditions up to 200 °C and 10 bar
- ADVANCED X - XL collectors with their black anodized chassis present a stylish-image

Technical Data Sheet

Package Systems	ADVANCED X	ADVANCED XL
Gross Area	2,00 m²	2,51 m²
Clearing	1,87 m²	2,34 m²
Absorbing Surface Area	1,87 m²	2,34 m²
Absorbing Surface Type	Cooper	Cooper
Absorbing Surface Coating Type	Selective	Selective
Transmittence	95 %	95 %
Emission / Reflection	5 %	5 %
Chassis	Black Anodized Aluminum	Black Anodized Aluminum
Glass Type	Low-Iron, Temperred, Sandy Patterned Solar Glass	Low-Iron, Temperred, Sandy Patterned Solar Glass
Glass Thickness	4 mm	4 mm
Daylight Transmittence Td65	91.6 %	91,6 %
Solar Energy Transmittance Tsol	90.5 %	90,5 %
Glass Seal	Vulcanized EPDM	Vulcanized EPDM
Isolation	RockWool (40 mm)	RockWool (40 mm)
Back Plate	Aluminum	Aluminum
Number of Riser Pipes	12	12
Riser Pipe Diameter Ø mm	10 mm	10 mm
Manifold Diameter Ø mm	18 mm (3/4")	18 mm (3/4")
Connection Type	Compression Fitting	Compression Fitting
Water Volume	1,8 liter	2,2 liter
Working Pressure	10 bar	10 bar
Test Pressure	15 bar	15 bar
Maximum Temperature	200 °C	200 °C
Stagnation Temperature	200 °C	200 °C
Length	1750 mm	2180 mm
Width	1150 mm	1150 mm
Height	80 mm	80 mm
Weight	41 kg	49 kg
Efficiency η_0	76,8 %	78 %

ESSENTIAL BLACK Series (X-XL)

Technical Specifications



- Long-lasting with the reinforced chassis
- Resistant to shocks with aluminum back plate
- Laser welded pipes provides higher heat transfer
- Special 40 mm thick rockwool insulation prevents heat loss
- 4 mm thick, sandy patterned solar collector glass has high transmittance of light
- Titanium coated absorber surface is made of aluminium
- Gross surface area: X-Series are 2,00 m^2 and XL-Series are 2.51 m^2
- Provides safe working conditions up to 200 °C and 10 bar
- ESSENTIAL BLACK X - XL collectors with their black anodized chassis present a stylish-image

Technical Data Sheet

Package Systems	ESSENTIAL BLACK X	ESSENTIAL BLACK XL
Gross Area	2,00 m^2	2,51 m^2
Clearing	1,87 m^2	2,34 m^2
Absorbing Surface Area	1,87 m^2	2,34 m^2
Absorbing Surface Type	Aluminum	Aluminum
Absorbing Surface Coating Type	Selective	Selective
Transmittence	95 %	95 %
Emission / Reflection	5 %	5 %
Chassis	Black Anodized Aluminum	Black Anodized Aluminum
Glass Type	Low-Iron, Temperred, Sandy Patterned Solar Glass	Low-Iron, Temperred, Sandy Patterned Solar Glass
Glass Thickness	4 mm	4 mm
Daylight Transmittence Td65	91,6 %	91,6 %
Solar Energy Transmittance Tsol	90,5 %	90,5 %
Glass Seal	Vulcanized EPDM	Vulcanized EPDM
Isolation	RockWool (40 mm)	RockWool (40 mm)
Back Plate	Aluminum	Aluminum
Number of Riser Pipes	12	12
Riser Pipe Diameter Ø mm	10 mm	10 mm
Manifold Diameter Ø mm	18 mm (3/4")	18 mm (3/4")
Connection Type	Compression Fitting	Compression Fitting
Water Volume	1,8 liter	2,2 liter
Working Pressure	10 bar	10 bar
Test Pressure	15 bar	15 bar
Maximum Temperature	200 °C	200 °C
Stagnation Temperature	163 °C	163 °C
Length	1750 mm	2180 mm
Width	1150 mm	1150 mm
Height	80 mm	80 mm
Weight	41 kg	50 kg
Efficiency η_0	80,5 %	80,9 %

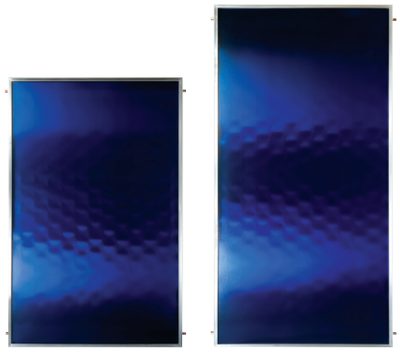
SOLAR ENERGY SYSTEMS

baymak

ESSENTIAL Series (X - XL)

Technical Specifications

- Long-lasting with the reinforced chassis
- Resistant to shocks with aluminum back plate
- Laser welded pipes provides higher heat transfer
- Special 40 mm thick rockwool insulation prevents heat loss
- 4 mm thick, sandy patterned solar collector glass has high transmittance of light
- Titanium coated absorber surface is made of aluminium
- Gross surface area: X-Series are 2,00 m² and XL-Series are 2.51 m²
- Provides safe working conditions up to 200 °C and 10 bar
- ESSENTIAL X - XL collectors with their grey aluminum chassis present a stylish-image



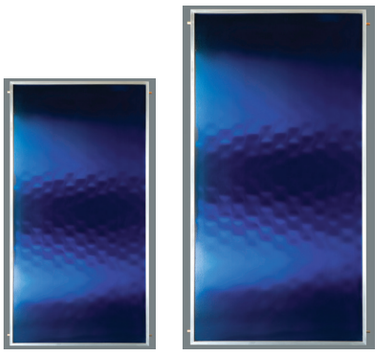
Technical Data Sheet

Package Systems	ESSENTIAL X	ESSENTIAL XL
Gross Area	2,00 m²	2,51 m²
Clearing	1,87 m²	2,34 m²
Absorbing Surface Area	1,87 m²	2,34 m²
Absorbing Surface Type	Aluminum	Aluminum
Absorbing Surface Coating Type	Selective	Selective
Transmittence	95 %	95 %
Emission / Reflection	5 %	5 %
Chassis	Alüminyum	Alüminyum
Glass Type	Low-Iron, Temperred, Sandy Patterned Solar Glass	Low-Iron, Temperred, Sandy Patterned Solar Glass
Glass Thickness	4 mm	4 mm
Daylight Transmittence Td65	91,6 %	91,6 %
Solar Energy Transmittance Tsol	90,5 %	90,5 %
Glass Seal	Vulcanized EPDM	Vulcanized EPDM
Isolation	RockWool (40 mm)	RockWool (40 mm)
Back Plate	Aluminum	Aluminum
Number of Riser Pipes	12	12
Riser Pipe Diameter Ø mm	10 mm	10 mm
Manifold Diameter Ø mm	18 mm (3/4")	18 mm (3/4")
Connection Type	Compression Fitting	Compression Fitting
Water Volume	1,8 liter	2,2 liter
Working Pressure	10 bar	10 bar
Test Pressure	15 bar	15 bar
Maximum Temperature	200 °C	200 °C
Stagnation Temperature	163 °C	163 °C
Length	1750 mm	2180 mm
Width	1150 mm	1150 mm
Height	80 mm	80 mm
Weight	41 kg	50 kg
Efficiency η_0	80,5 %	80,9 %

APOLLO S Series (X-XL)

Technical Specifications

- Long-lasting with the reinforced chassis
- Resistant to shocks with galvanized back plate
- Laser welded pipes provides higher heat transfer
- Special 40 mm thick glasswool insulation prevents heat loss
- 4 mm thick Sandy patterned solar collector glass has high transmittance of light
- Titanium coated absorber surface is made of aluminium
- Gross surface area: X-Series are 2,00 m^2 and XL-Series are 2.51 m^2
- Provides safe working conditions up to 200 °C and 10 bar
- APOLLO S X-XL collectors with their grey aluminum chassis present a stylish-image



Technical Data Sheet

Package Systems	APOLLO S X	APOLLO S XL
Gross Area	2,00 m^2	2,51 m^2
Clearing	1,87 m^2	2,34 m^2
Absorbing Surface Area	1,87 m^2	2,34 m^2
Absorbing Surface Type	Aluminum	Aluminum
Absorbing Surface Coating Type	Selective	Selective
Transmittence	95 %	95 %
Emission / Reflection	5 %	5 %
Chassis	Aluminum	Aluminum
Glass Type	Low-Iron, Temperred, Sandy Patterned Solar Glass	Low-Iron, Temperred, Sandy Patterned Solar Glass
Glass Thickness	4 mm	4 mm
Glass Seal	Vulcanized EPDM	Vulcanized EPDM
Isolation	Glasswool (40 mm)	Glasswool (40 mm)
Back Plate	Galvanized	Galvanized
Number of Riser Pipes	10	10
Riser Pipe Diameter Ø mm	10 mm	10 mm
Manifold Diameter Ø mm	18 mm (3/4")	18 mm (3/4")
Connection Type	Compression Fitting	Compression Fitting
Water Volume	1,71 liter	2,04 liter
Working Pressure	10 bar	10 bar
Test Pressure	15 bar	15 bar
Maximum Temperature	200 °C	200 °C
Stagnation Temperature	200 °C	200 °C
Length	1750 mm	2180 mm
Width	1150 mm	1150 mm
Height	80 mm	80 mm
Weight	43 kg	53 kg
Efficiency η_0	76,7 %	77,5 %

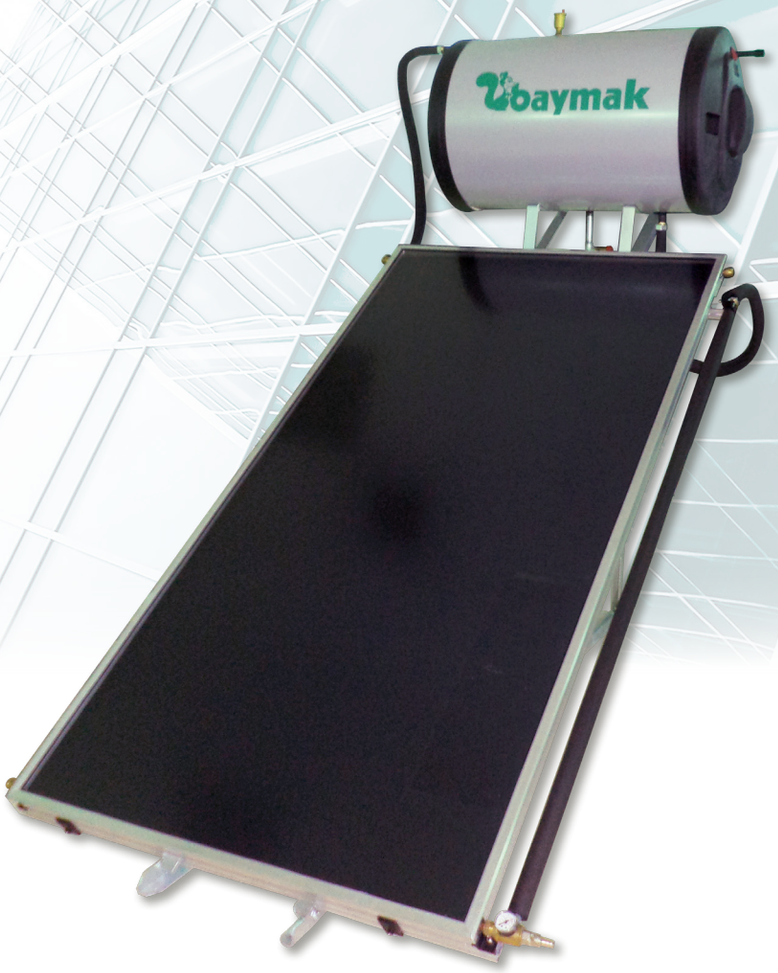
APOLLO E Series (X-XL)

Technical Specifications

- Long-lasting with the reinforced chassis
- Resistant to shocks with galvanized back plate
- Laser welded pipes provides higher heat transfer
- Special 40 mm thick glasswool insulation prevents heat loss
- 3,2 mm thick Sandy patterned solar collector glass has high transmittance of light
- Titanium coated absorber surface is made of aluminium
- Gross surface area: X-Series are 1,98 m^2 and XL-Series are 2.47 m^2
- Provides safe working conditions up to 200 °C and 10 bar
- APOLLO E X - XL collectors with their grey aluminum chassis present a stylish-image

Technical Data Sheet

Package Systems	APOLLO E X	APOLLO E XL
Gross Area	1,98 m^2	2,47 m^2
Clearing	1,87 m^2	2,34 m^2
Absorbing Surface Area	1,87 m^2	2,34 m^2
Absorbing Surface Type	Aluminum	Aluminum
Absorbing Surface Coating Type	Selective	Selective
Transmittence	95 %	95 %
Emission / Reflection	5 %	5 %
Chassis	Aluminum	Aluminum
Glass Type	Low-Iron, Temperred, Sandy Patterned Solar Glass	Low-Iron, Temperred, Sandy Patterned Solar Glass
Glass Thickness	3,2 mm	3,2 mm
Glass Seal	Vulcanized EPDM	Vulcanized EPDM
Isolation	Glasswool (40 mm)	Glasswool (40 mm)
Back Plate	Galvanized	Galvanized
Number of Riser Pipes	10	10
Riser Pipe Diameter Ø mm	8 mm	8 mm
Manifold Diameter Ø mm	18 mm (3/4")	18 mm (3/4")
Connection Type	Compression Fitting	Compression Fitting
Water Volume	1,15 liter	1,30 liter
Working Pressure	10 bar	10 bar
Test Pressure	15 bar	15 bar
Maximum Temperature	200 °C	200 °C
Stagnation Temperature	179 °C	197 °C
Length	1740 mm	2170 mm
Width	1140 mm	1140 mm
Height	75 mm	75 mm
Weight	32 kg	40 kg
Efficiency η_0	74,4 %	76,1 %



SOLAR ENERGY SYSTEMS

SOLAR ENERGY SYSTEMS

Solar Thermal Package Systems

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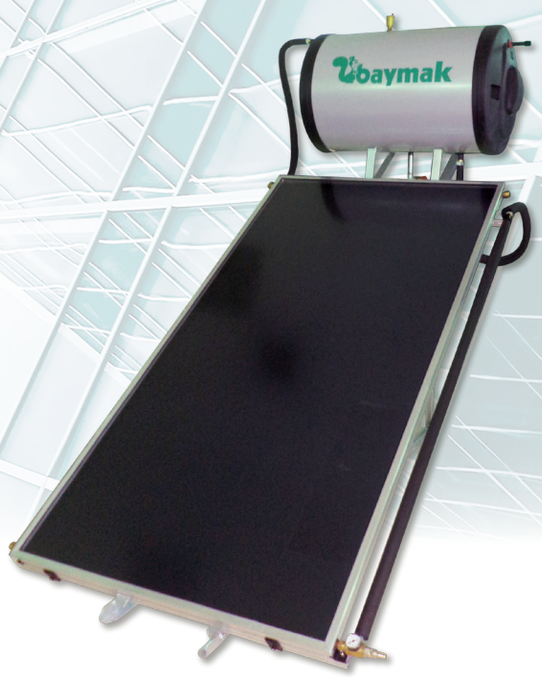
AQUASOLAR Series Package Systems



- Feauture of maintaining the hot water with its 160, 200, 300-liter tanks
- Economic with natural draft system
- Easy to install by means of compact systems
- Safe with the use of closed expansion tank
- Hygiene in running water is provided with double-layer enameled inner tank
- Robust and durable with galvanized legs
- Provides ease of montage for installation
- Titanium coated copper / aluminum absorber plate solar collectors provides higher heat transfer with the laser-welded pipes
- AquaSolar tanks have running water hygiene certificate (PZH)
- AquaSolar tanks are protected against corrosion with Mg Anode
- Has high intensity polyurethane insulated and reinforced plastics covers against UV rays
- Auxiliary electric heater can be connected with auxiliary heater sleeve coupling (optional)

Technical Specifications

Your home meets up with hygienic, high quality and free hot water through Baymak Solar Power Package Systems with products that make life easier by supporting energy economy and being against expensive energy.

Comfortable hot water is obtained in an easy and practical way with Baymak solar power tanks and mounting chassis, and the visual pollution of the roofs comes to an end via Aquasolar Solar Energy Systems.

Aquasolar Solar Energy Systems have a sleeve coupling for electric auxiliary heater. Thus, even in cold regions, in mid seasons, electric auxiliary heater can be connected to produce more hot water. High efficient all Baymak Solar Collectors range can be used in Aquasolar SES, and comfortable hot water is provided by 160 *l*, 200 *l* and 300 *l* capacity and high-intensity polyurethane insulated tanks.

Baymak Aqua Solar Energy Tanks keep the water inside in a clean and hygienic way due to the tanks are titanium-doped enamel coated like other produced products. Aquasolar Series has an hygiene certificate (PZH) from international organizations thar are accepted in all of the Europe. AQUASOLAR like all other Baymak hot water tanks is protected against corrosion through Magnesium alloy anodes. Thus, provides the comfort of consuming healthy hot water at any time with contentment.

Stylish new plastic covers, reinforced against UV rays, on the other hand provides ease of installation for the tanks.

Baymak Aquasolar Series Solar Power Package Systems provide practicality, comfort and hygiene together.

Package System Contents

1- Collector
2- Tank
3- Chassis
4- Hydraulic Fittings
5- Tank Accessories
6- Expansion Tank
7- Solar Liquid

Technical Data Sheet

Package Systems	AQUASOLAR 1K 160 L	AQUASOLAR 1K 200 L	AQUASOLAR 2K 200 L	AQUASOLAR 2K 300 L
Tank Volume	160 *l*	200 *l*	200 *l*	300 *l*
Number of collectors	1 pc. (2/2,5m^2)	1 pc. (2,5m^2)	2 pcs. (2/2,5m^2)	2 pcs. (2/2,5m^2)
Collector Type	X / XL	XL	X / XL	X / XL
Tank Heat Transfer Area	1,0 m^2	1,3 m^2	1,3 m^2	2,15 m^2
Exterior Coating Material	Electrostatic Powder Coated Galvanized Steel	Electrostatic Powder Coated Galvanized Steel	Electrostatic Powder Coated Galvanized Steel	Electrostatic Powder Coated Galvanized Steel
Inner Tank Coating	Titanium Doped Enamel	Titanium Doped Enamel	Titanium Doped Enamel	Titanium Doped Enamel
Water Input-Output Connections	R 3/4"	R 3/4"	R 3/4"	R 3/4"
Collector Tank Connections	Rustproof Flex / Copper	Rustproof Flex / Copper	Rustproof Flex / Copper	Rustproof Flex / Copper
Optional Heater Connection	G 1 1/4"	G 1 1/4"	G 1 1/4"	G 1 1/4"
Expansion Tank	7,5 *l* Membrane Closed Type	7,5 *l* Membrane Closed Type	7,5 *l* Membrane Closed Type	7,5 *l* Membrane Closed Type
Tank Isolation	Water-Based Polyurethane (40 gr/cm^3)	Water-Based Polyurethane (40 g/cm^3)	Water-Based Polyurethane (40 g/cm^3)	Water-Based Polyurethane (40 g/cm^3)

Water Boosters - Pump Systems

Maximum Efficiency
With the Minimum Energy

Pumps are the machines that provide energy for fluid which transfer mechanic energy taken from a drive motor into the fluid passing through the pump. On the other hand, water boosters are the systems used for the purpose of increasing water pressure and supplying water in cases where the running water or the water that we need is insufficient and under the desired pressure level. Baymak Water Boosters-Pump Group has a wide range of products and provides the best option to the consumers by ensuring maximum efficiency with minimum energy.

WATER BOOSTERS - PUMP SYSTEMS

- E.SYBOX SERIES ELECTRONIC FREQUENCY CONTROLLED WATER BOOSTERS
- KVC SERIES VERTICAL MULTI-STAGE WATER BOOSTERS
- JET SERIES PACKAGE WATER BOOSTERS
- PKM SERIES PERIPHERAL PUMP PACKAGE WATER BOOSTERS
- AQUA PRES CENTRIFUGAL WATER BOOSTERS
- INDUSTRIAL TYPE WATER BOOSTERS
- EVOSTA SERIES CIRCULATION PUMPS
- EVOTRON SERIES PREQUENCY CONVERTOR CIRCULATION PUMPS
- EVOPLUS SERIES CONVERTOR SMALL-SIZE INDUSTRIAL CIRCULATION PUMPS
- EVOPLUS SERIES CONVERTOR INDUSTRIAL CIRCULATION PUMPS
- ALM - ALP SERIES IN-LINE DRY ROTOR CIRCULATION PUMPS
- KLM-KLP & DKLM-DKLP SERIES IN-LINE DRY ROTOR CIRCULATION PUMPS
- CM SERIES IN-LINE DRY ROTOR CIRCULATION PUMPS
- CP SERIES IN-LINE DRY ROTOR CIRCULATION PUMPS
- KLME-DKLME SERIES REQUENCY CONVERTOR IN-LINE DRY ROTOR CIRCULATION PUMPS
- CPE / CP-GE / DCPE SERIES FREQUENCY CONVERTOR IN-LINE DRY ROTOR CIRCULATION PUMPS
- SUBMERSIBLE WASTE WATER PUMPS
- DEEP WELL SUBMERSIBLE PUMPS

WATER BOOSTERS - PUMP SYSTEMS

WATER BOOSTERS - PUMP SYSTEMS

Water Booster Systems

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E.SYBOX Series Electronic Frequency Controlled Water Boosters

- E.sybox is the world's most advanced ergonomic system in the field of water boosters for residential use
- Operates at maximum efficiency with minimum energy consumption
- Ergonomic technology
- As-quiet-as whisper 45 dB
- At least 30% of space-saving compared to the old-style water boosters
- Connection to the installation both horizontally and vertically
- Does not require any additional product with its compact structure
- Easy to install and use
- Activates according to water needs by means of inverter technology

Technical Specifications

E.sybox has won the IF 2013 design award which is recognized throughout the world. E.sybox is a new integrated system in water pressurizing systems used by DAB in residential and building applications. No attachment is required for the installation of E.sybox. Because a self-priming multi-stage pump, electronics for controlling and management, pressure and flow sensors, high-resolution divertible LCD screen and 2 *l* expansion tank are already available inside it.

Efficient: Thanks to the inverter technology, Esybox uses energy according to the water needs. Thus, provides a significant saving by preventing excess usage.

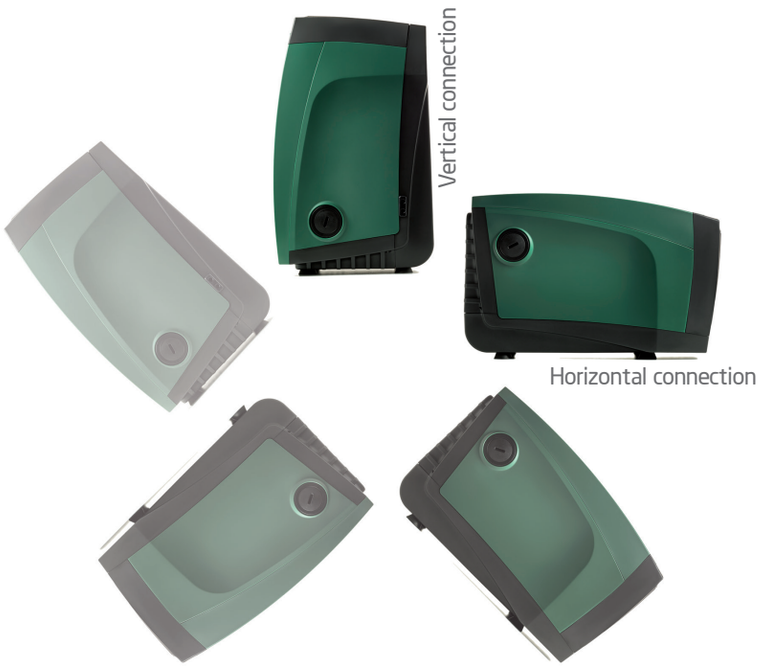
Versatile: It can be connected to the installation, both horizontally and vertically in line with the requirements.

Quiet: It can decrease vibrations to the minimum level. The standard use is as silent as whisper.

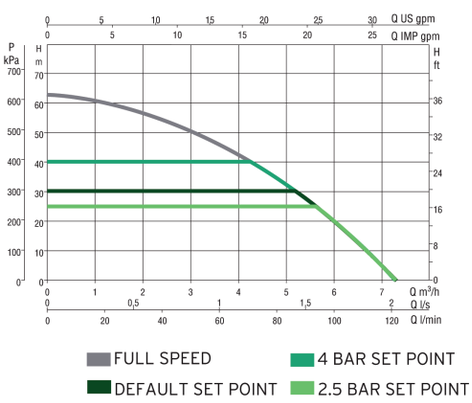
Compact: Provides at least 30% reduction in size compared with any other recent system.

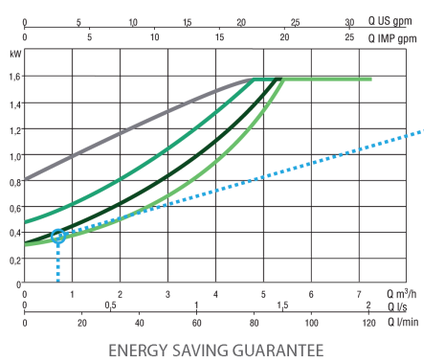
Easy Installation and Use: Thanks to the design of technical features, it is very easy to maintain and use.

Wireless Connection: Wireless connection option is available to be able to remote control the water booster settings.



Technical Data Sheets





ENERGY SAVING GUARANTEE

Electrical Specifications					Hydraulic Specifications													Connection Suction	Connection Discharge	Weight kg
Voltage 50 - 60 Hz	P1 Max. kW	P1 Max. HP	In A	Q=m³/h Q=l/min	0 0	0,6 10	1,2 20	1,8 30	2,4 40	3,0 50	3,6 60	4,2 70	4,8 80	5,4 90	6 100	6,6 110	7,2 120			
1x220-240V~	1,55	2,1	9,8	H (m)	62	61	60	57	55	51	46	40	33	26	17	9	0	1"	1"	27

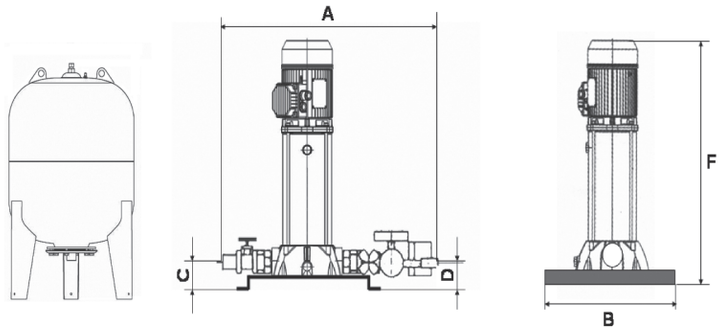
KVC Series Vertical Multi-Stage Water Boosters

- Classified under high efficiency super silent vertical type multi-stage original DAB brand pumps.
- Water booster is ready to install as a complete package with the balance tank with appropriate volume, the connection kit and the protection control panel provided together.
- Can be produced as 1, 2 or 3 pumps according to the demand.
- Thanks to the specially designed pumps, suction and Discharge orifices are located on the same line in opposite directions. Thus, the installation of the water boosters is intended to be performed in a very easy way.
- All models are supplied with electrical protection and control panel device.
- The models in appropriate capacity can be converted into fire boosters by adding weekly programmable test equipment (optional).
- Frequency converter control panels are developed for the control and automation of models with 1 and 3 pumps, these are electric panels in which frequency converter unit is integrated to their structure (Optional).

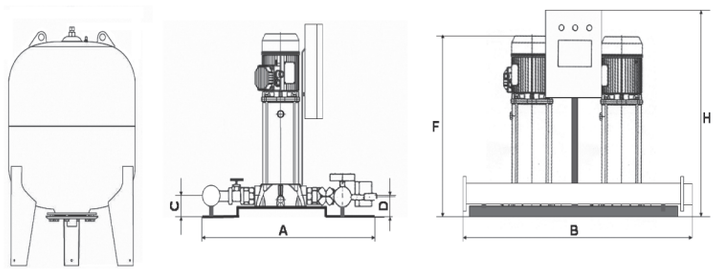
Technical Specifications

Mechanical Seal	: Carbon / Ceramic
Impeller Material	: Techno-polymer
Pump Body	: AISI 304 Stainless Steel
Suction Orifice	: Techno-polymer
Pump Shaft	: AISI 303 Stainless Steel
Protection Level	: IP 55
Insulation Class	: F
Max. Fluid Temperature	: + 40 °C
Max. Operating Pressure	: 12 Bar
Max. Room Temperature	: + 40 °C

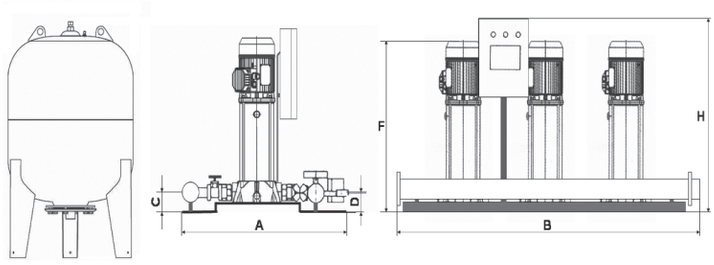
Models With 1 Pump



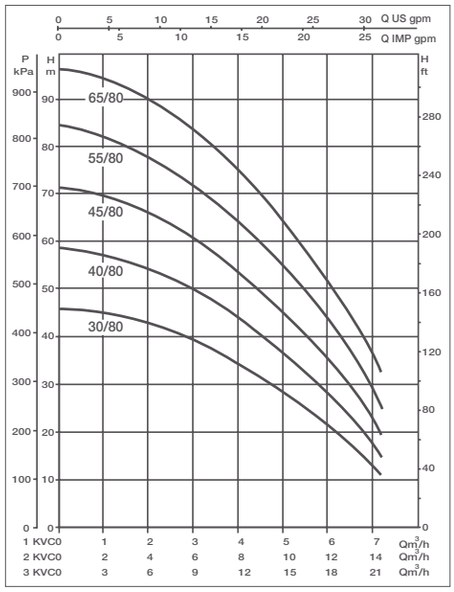
Models With 2 Pump



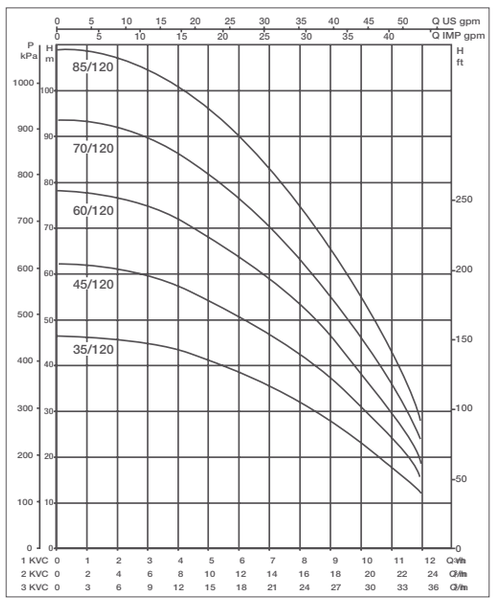
Models With 3 Pump



KVC 80 SERIES



KVC 120 SERIES



WATER BOOSTERS - PUMP SYSTEMS

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WATER BOOSTER MODEL	VOLTAGE 50 Hz	POWER HP	POWER kW	CURRENT A	CAPACITY l/h	Pressure Range (bar)	CONNECTION Suction (inch)	CONNECTION Discharge (inch)	Dimensions (mm) A	B	C	D	F	H	Balance Tank (l)	Connection Kit (inch)	Weight (kg)
MODELS WITH 1 PUMP																	
1KVC 30/80 M	220 V	1.1	0.8	5.6	5.000-3.000	2.8-4	1 1/4	1 1/4	425	274	100	100	572	-	100	1	20
1KVC 30/80 T	380 V	1.1	0.8	3.8- 2.2	5.000-3.000	2.8-4	1 1/4	1 1/4	425	274	100	100	572	-	100	1	20
1KVC 40/80 M	220 V	1.36	1	6.5	5.000-3.000	3.7-5	1 1/4	1 1/4	425	274	100	100	572	-	100	1	21
1KVC 40/80 T	380 V	1.36	1	4.4-2.6	5.000-3.000	3.7-5	1 1/4	1 1/4	425	274	100	100	572	-	100	1	21
1KVC 45/80 M	220 V	1.5	1.1	7.4	5.000-3.000	4.5-6	1 1/4	1 1/4	425	274	100	100	667	-	100	1	24
1KVC 45/80 T	380 V	1.5	1.1	5.4-3.1	5.000-3.000	4.5-6	1 1/4	1 1/4	425	274	100	100	667	-	100	1	24
1KVC 55/80 M	220 V	2	1.5	9	5.000-3.200	5.5-7	1 1/4	1 1/4	425	274	100	100	667	-	100	1	24
1KVC 55/80 T	380 V	2	1.5	6.2-3.6	5.000-3.200	5.5-7	1 1/4	1 1/4	425	274	100	100	677	-	100	1	24
1KVC 65/80 T	380 V	3	2.2	6.9-4	5.000-3.400	6.5-8	1 1/4	1 1/4	425	274	100	100	694	-	100	1	26
1KVC 35/120 M	220 V	1.5	1	7.4	9.000-3.000	2.8-4.5	1 1/4	1 1/4	425	274	100	100	519	-	100	1	25
1KVC 35/120 T	380 V	1.5	1	5.4-3.1	9.000-3.000	2.8-4.5	1 1/4	1 1/4	425	274	100	100	519	-	100	1	25
1KVC 45/120 T	380 V	2.5	1.8	6.9-4	8.400-2.500	4-6	1 1/4	1 1/4	425	274	100	100	579	-	100	1	25
1KVC 60/120 T	380 V	3	2.2	7.6-4.5	8.400-4.500	5-7	1 1/4	1 1/4	425	274	100	100	659	-	100	1	26
1KVC 70/120 T	380 V	4	3	11.8-6.8	8.400-5.000	6-8	1 1/4	1 1/4	425	274	100	100	741	-	100	1	29
1KVC 85/120 T	380 V	4	3	13.5-7.8	8.200-4.000	8-10	1 1/4	1 1/4	425	274	100	100	741	-	200	2	30
MODELS WITH 2 PUMP																	
2KVC 30/80 M	220 V	2x1.1	2x0.8	2X5,6	10.000-6.000	2.8-4	DN 50	DN 40	815	715	100	100	572	815	100	1 1/2	77
2KVC 30/80 T	380 V	2x1.1	2x0.8	2x3.8- 2.2	10.000-6.000	2.8-4	DN 50	DN 40	815	715	100	100	572	815	100	1 1/2	77
2KVC 40/80 M	220 V	2x1.36	2x1	2x6.5	10.000-6.000	3.7-5	DN 50	DN 40	815	715	100	100	572	815	100	1 1/2	80
2KVC 40/80 T	380 V	2x1.36	2x1	2x4.4-2.6	10.000-6.000	3.7-5	DN 50	DN 40	815	715	100	100	572	815	100	1 1/2	80
2KVC 45/80 M	220 V	2x1.5	2x1.1	2x7.4	10.000-6.000	4.5-6	DN 50	DN 40	815	715	100	100	667	815	200	1 1/2	86
2KVC 45/80 T	380 V	2x1.5	2x1.1	2x5.4-3.1	10.000- 6.000	4.5-6	DN 50	DN 40	815	715	100	100	667	815	200	1 1/2	86
2KVC 55/80 M	220 V	2x2	2x1.5	2x9	10.000-6.400	5.5-7	DN 50	DN 40	815	715	100	100	667	815	200	1 1/2	86
2KVC 55/80 T	380 V	2x2	2x1.5	2x6.2-3.6	10.000-6.400	5.5-7	DN 50	DN 40	815	715	100	100	667	815	200	1 1/2	86
2KVC 65/80 T	380 V	2x3	2x2.2	2x6.9-4	10.000-6.800	6.5-8	DN 50	DN 40	815	715	100	100	694	815	200	1 1/2	89
2KVC 35/120 M	220 V	2x1.5	2x1	2x7.4	18.000-6.000	2.8-4.5	DN 65	DN 50	815	715	100	100	519	815	200	1 1/2	89
2KVC 35/120 T	380 V	2x1.5	2x1	2x5.4-3.1	18.000-6.000	2.8-5.5	DN 65	DN 50	815	715	100	100	519	815	200	1 1/2	89
2KVC 45/120 T	380 V	2x2.5	2x1.8	2x6.9-4	16.800-5.000	4-6	DN 65	DN 50	815	715	100	100	579	815	200	1 1/2	90
2KVC 60/120 T	380 V	2x3	2x2.2	2x7.6-4.5	16.800-9.000	5-7	DN 65	DN 50	815	715	100	100	659	815	200	1 1/2	92
2KVC 70/120 T	380 V	2x4	2x3	2x11.8-6.8	16.800-10.000	6-8	DN 65	DN 50	815	715	100	100	741	815	200	1 1/2	97
2KVC 85/120 T	380 V	2x4	2x3	2x13.5-7.8	16.400-8.000	8-10	DN 65	DN 50	815	715	100	100	741	815	200	1 1/2	99
MODELS WITH 3 PUMP																	
3KVC 55/80 M	220 V	3x2	3x1.5	3x9	15.000-9.600	5.5-7	DN 65	DN 50	815	1090	100	100	667	815	200	1 1/2	127
3KVC 55/80 T	380 V	3x2	3x1.5	3x6.2-3.6	15.000-9.600	5.5-7	DN 65	DN 50	815	1090	100	100	667	815	200	1 1/2	127
3KVC 65/80 T	380 V	3x3	3x2.2	3x6.9-4	15.000-10.200	6.5-8	DN 65	DN 50	815	1090	100	100	694	815	200	1 1/2	133
3KVC 60/120 T	380 V	3x3	3x2.2	3x7.6-4.5	25.200-13.500	5-7	DN 80	DN 65	815	1090	100	100	659	815	200	1 1/2	138
3KVC 85/120 T	380 V	3x4	3x3	3x13.5-7.8	24.600-12.000	8-10	DN 80	DN 65	815	1090	100	100	741	815	200	1 1/2	148

JET Series Package Water Boosters

- Jet water boosters with original DAB pump are as complete package that can make suction up to a depth of 8 meters
- Quiet and high performance with its excellent designed pump.
- Maintenance-free
- Ready to use as complete package
- 20 / or 50 / capacity tank is noncorrosive due to being oven-dry painted and not to come into contact with water
- Jet 82 and Jet 102; 20 / models have a flexible short tube connection, they take a small place and economical.
- Jet 82 - 102 - 112 mono-phase versions are delivered with 1 meter plug-in cable.
- Three-phase models should be protected with an appropriate board

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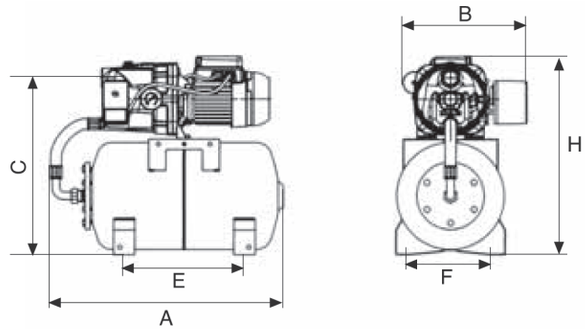
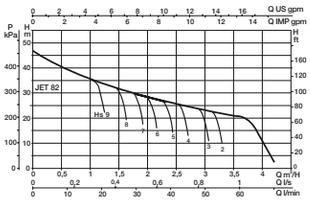
Technical Specifications

Mechanical Seal	: Carbon / Ceramic
Impeller Material	: Techno-polymer
Pump Body	: Cast-iron
Pump Shaft	: Stainless Steel
Venturi, Diffuser	: Techno-polymer
Protection Level	: IP 44 (IP 55 for terminal box)
Insulation Class	: F
Maximum Fluid Temperature	:+40 °C
Maximum Operating Pressure	: 6 bar (8 bar for Jet 151-251)
Maximum Ambient Temperature	: +40 °C

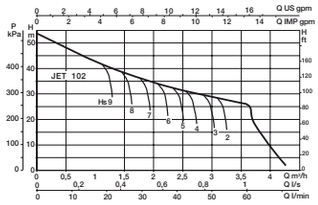
JET 82 - 102



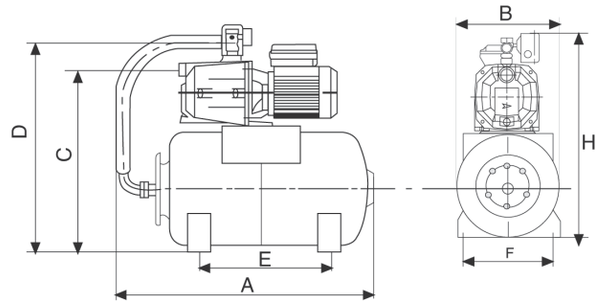
JET 82 M



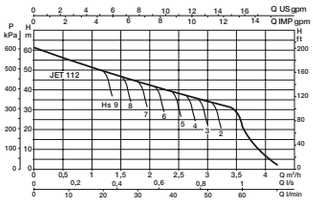
JET 102 M



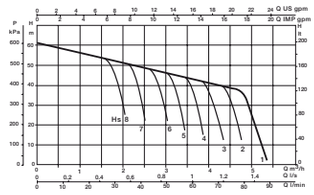
JET 112



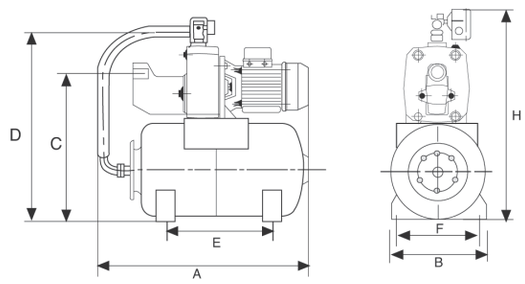
JET 112 M-T



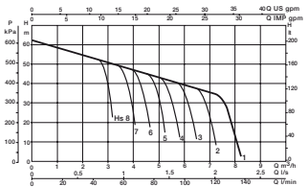
JET 151 M-T



JET 151 - 251



JET 251 M-T



Technical Data Sheets

WATER BOOSTER MODEL	VOLTAGE 50 Hz	POWER HP	POWER kW	CURRENT A	CAPACITY l/h	Pressure Range (bar)	CONNECTION Suction (inch)	CONNECTION Discharge (inch)	Ball Volume (l)	Dimensions (mm) A	B	C	D	E	F	H	Weight (kg)
JET 82 M	220 V	0.8	0.59	3.55	3600-1200	2-3.5	1	1	20 50	560 650	290 430	425 630	510 720	250 190	245 405	560 760	21 28
JET 102 M	220 V	1	0.75	4.87	3600-1200	2.5-4	1	1	20 50	560 650	293 430	425 630	510 720	250 190	245 405	560 760	23 30
JET 112 M	220 V	1.36	1	6.2	2800-1200	3.5-5	1	1	20 50	560 650	270 430	425 630	510 720	250 190	245 405	560 760	24 31
JET 112 T	380 V	1.36	1	4.3-2.5	2800-1200	3.5-5	1	1	50	650	430	630	720	190	405	760	31
JET 151 M	220 V	1.5	1.1	7.8	4200-2500	3-5	1 1/4	1	50	650	430	630	720	190	405	830	47
JET 151 T	380 V	1.5	1.1	5.2-3	4200-2500	3-5	1 1/4	1	50	650	430	630	720	190	405	830	47
JET 251 M	220 V	2.5	1.85	10	7200-3900	3.7-5	1 1/4	1	50	650	430	630	720	190	405	830	51
JET 251 T	380 V	2.5	1.85	6.9-4	7200-3900	3.7-5	1 1/4	1	50	650	430	630	720	190	405	830	50

PKM Series Peripheral Pump Package Water Boosters

- Water boosters with original DAB pump are ready to use as complete package
- Pump cover and pump impeller are made of brass
- 20 *l* or 50 *l* capacity tank is noncorrosive due to being oven-dry painted and not to come into contact with water
- Takes a small place and economical

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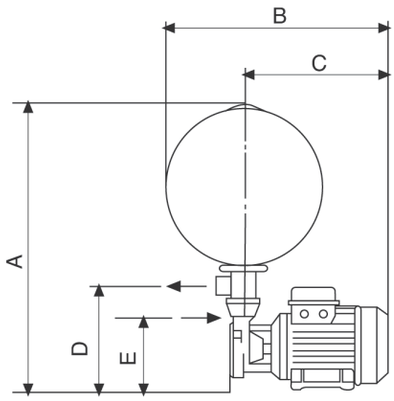
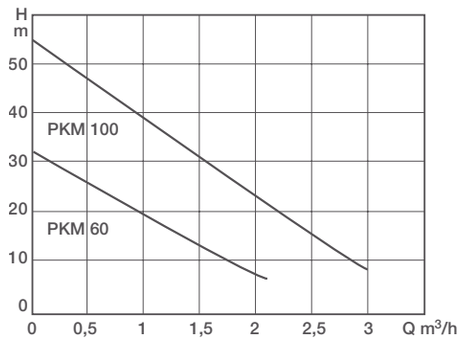
Technical Specifications

Mechanical Seal	: Carbon / Ceramic
Impeller Material	: Brass
Pump Body	: Brass / Cast-iron
Pump Shaft	: Stainless Steel
Protection Level	: IP 44
Insulation Class	: F
Maximum Fluid Temperature	: +50 °C
Maximum Operating Pressure	: 6 bar
Maximum Ambient Temperature	: +40 °C



Performans Curves



Technical Data Sheets

WATER BOOSTER MODEL	VOLTAGE 50 Hz	POWER		CURRENT A	CAPACITY l/h	Pressure Range (overpressure)	CONNECTION		Dimensions (mm)					Ball Volume (l)	Weight (kg)
		HP	kW				Suction (inch)	Discharge (inch)	A	B	C	D	E		
PKM 60	220 V	0,4	0,3	2,2	1400 - 600	1,5 - 2,5	1	1	635	415	235	190	105	20	13
PKM 100	220 V	0,8	0,6	3,7	2200 - 1000	2,5 - 4	1	1	670	470	290	208	80	20	18

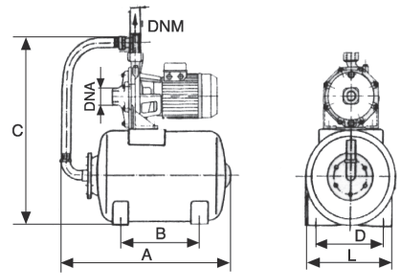
AQUA PRES Series Centrifugal Water Boosters

- Water Booster is ready to install as a complete package with the balance tank with appropriate volume, the flexible connection kit and the protection control panel provided together.
- Classified under reverse flow system dual-stage horizontal centrifugal pumps, maintenance-free
- Can be produced as 1, 2 or 3 pumps according to the demand. Balance tank is mounted under pump in the single pump models. Balance tank is individually provided with the device for the groups with 2 and 3 pumps.
- All models are supplied with electrical protection and control panel device.
- The models in appropriate capacity can be converted into fire boosters by adding weekly programmable test equipment.
- Original DAB pumps are used in K45/50, K55/100 and K90/100 hydrophore models.
- Frequency converter control panels are developed for the control and automation of models with 1 and 3 pumps, these are electric panels in which frequency converter unit is integrated to their structure (Optional).

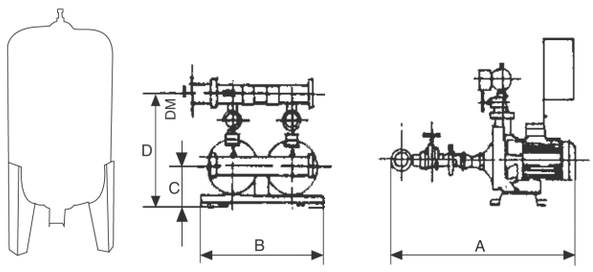
Technical Specifications

Mechanical Seal	: Carbon / Ceramic
Impeller Material	: Techno-polymer
Pump Body	: Cast-iron
Suction and Discharge	: Cast-iron
Pump Shaft	: Stainless Steel
Protection Level	: IP 44
Insulation Class	: F
Maximum Fluid Temperature	: +50 °C (110 °C for K 90/100)
Maximum Operating Pressure	: 6 bar
Maximum Ambient Temperature	: +40 °C

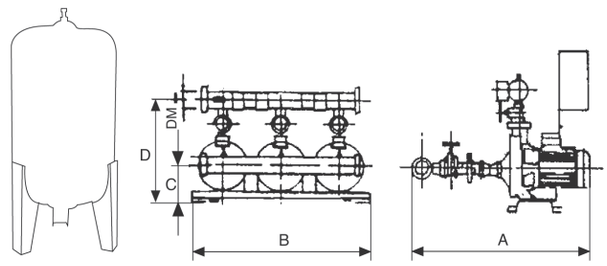
MODELS WITH 1 PUMP



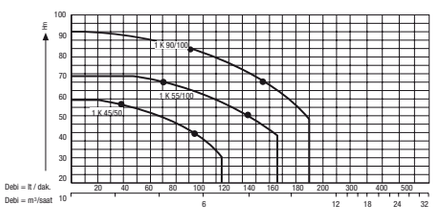
MODELS WITH 2 PUMP



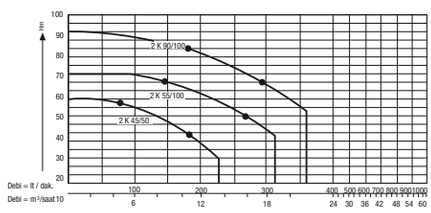
MODELS WITH 3 PUMP



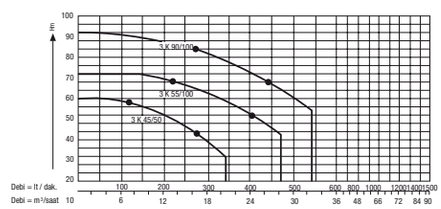
Models with single Pump



Models with 2 Pump



Models with 3 Pump



Technical Data Sheets

WATER BOOSTER MODEL	VOLTAGE 50 Hz	POWER HP	POWER kW	CURRENT A	CAPACITY l/h	Pressure Range (overpressure)	CONNECTION Suction (inch)	CONNECTION Discharge (inch)	Dimensions (mm) A	B	C	D	H	L	Balance Tank (l)	Connection Kit (inch)	Weight (kg)
1 K 45/50M	220 V	1,5	1,1	12,2	5600-2250	2,9-4,6	1 1/4	1	530	225	770	270	-	S-50	440	1	25
1 K 45/50T	380 V	1,5	1,1	3,4	5600-2250	2,9-4,6	1 1/4	1	530	225	770	270	-	S-50	440	1	25
1 K 55/100T	380 V	3	2,2	6,6	8100-4200	4-6	1 1/2	1 1/2	900	625	840	270	-	S-80	440	1	41
1 K 90/100T	380 V	5,5	4	9,5	8800-5400	6-8	1 1/2	1 1/2	980	705	870	300	-	S-100	470	1	43
2 K 45/50T	380 V	2x1,5	2x1,1	2x3,4	11200-4500	2,9-4,6	2	1 1/2	710	790	155	455	825	S-100	850	1	73
2 K 55/100T	380 V	2x3	2x2,2	2x6,6	16200-8400	4-6	2 1/2	2	805	790	175	490	860	S-200	850	1 1/2	100
2 K 90/100T	380 V	2x5,5	2x4	2x9,5	17600-10900	6-8	2 1/2	2	795	790	175	490	850	S-200	1040	1 1/2	114
3 K 55/100T	380 V	3x3	3x2,2	3x6,6	24300-12600	4-6	DN 80 PN 10	DN 65 PN 10	830	1185	175	495	850	S-200	1030	1 1/2	155
3 K 90/100T	380 V	3x5,5	3x4	3x9,5	26400-16200	6-8	DN 80 PN 10	DN 65 PN 10	823	1200	175	495	850	S-300	1240	1 1/2	190

INDUSTRIAL TYPE Water Boosters

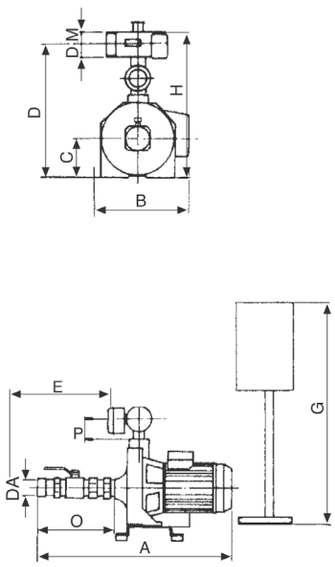
- Grouped under reverse flow system dual-stage horizontal centrifugal pumps. Maintenance-free
- This type of water boosters categorized by the original DAB pumps used for residential requirements, industrial plants and irrigation, can also be used as a fire booster.
- All models are supplied with electrical protection and control panel
- Appropriate capacity models can be converted into the fire booster by adding weekly programmable test device.
- Balance tank with desired volume and connection kit must be separately ordered with the hydrophore
- Can be produced as a jockey pump on demand.

WATER BOOSTERS - PUMP SYSTEMS

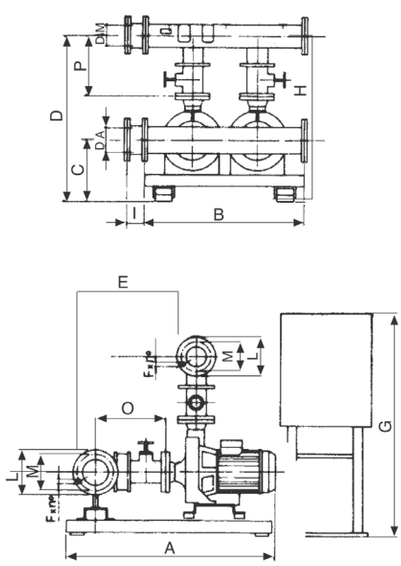
Technical Specifications

Mechanical Seal	: Carbon / Ceramic
Impeller Material	: Techno-polymer
Pump Body	: Cast-iron 200 UNI ISO 185
Suction and Discharge	: Stainless Steel AISI 304 X5 Ni 1810 UNI 6900/71
Pump Shaft	: Stainless Steel
Protection Level	: IP 44
Insulation Class	: F
Maximum Fluid Temperature	: From -15 °C to + 110 °C
Maximum Operating Pressure	: 12 bar
Maximum Ambient Temperature	: +40 °C

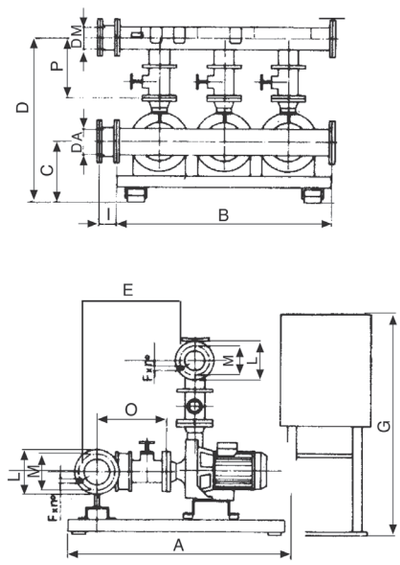
MODELS WITH 1 PUMP



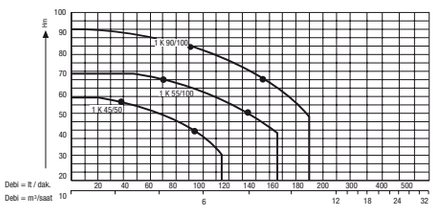
MODELS WITH 2 PUMP



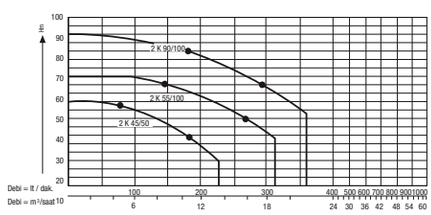
MODELS WITH 3 PUMP



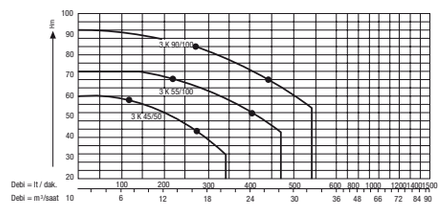
Models with single Pump



Models with 2 Pump



Models with 3 Pump



Technical Data Sheets

WATER BOOSTER MODEL	VOLTAGE 50 Hz	POWER HP	POWER kW	CURRENT A	CAPACITY l/h	Pressure Range (overpressure)	BAĞLANTI Suction (inch)	BAĞLANTI Discharge (inch)	Dimensions (mm) A	B	C	D	E	G	H	O	P	I	L	M	Recommended Balance Tank	Weight (kg)
MODELS WITH 1 PUMP																						
1 K 80/300 T	380 V	10	7,5	17,3	24000-15000	6.5-8.5	2	2	890	530	250	610	400	1005	750	290	200	-	-	-	750	88
1 K 80/400 T	380 V	15	11	20,6	28500-15000	6.8-9.2	2	2	930	530	250	610	400	1005	750	290	200	-	-	-	750	88
MODELS WITH 2 PUMP																						
2 K 80/300 T	380 V	2x10	2x7,5	2x17,3	49000-30000	6.5-8.5	DN 80-PN 10	DN 80-PN 10	950	720	250	610	480	1005	750	380	260	130	200	160	750	207
2 K 80/400 T	380 V	2x15	2x11	2x20,6	57000-30000	6.8-9.2	DN 80-PN 10	DN 80-PN 10	950	720	250	610	480	1005	750	380	260	130	200	160	1000	223
MODELS WITH 3 PUMP																						
3 K 80/300 T	380 V	3x10	3x7,5	3x17,3	73800-45000	6.8-9.2	DN 100-PN 10	DN 100-PN 10	1000	1100	250	620	500	1005	750	400	280	135	220	180	1000	400
3 K 80/400 T	380 V	3x15	3x11	3x20,6	85500-45000	6.8-9.2	DN 100-PN 10	DN 100-PN 10	1000	1100	250	620	500	1005	750	400	280	135	220	180	1000	424

WATER BOOSTERS - PUMP SYSTEMS

WATER BOOSTERS - PUMP SYSTEMS

Circulation Pumps

baymak

EVOSTA Series Circulation Pumps

- Reduces high-pressure in the system
- Decreases noise and vibrations to the minimum level
- Extends life-span of the circulator considerably
- Provides energy saving at a higher level
- Compatible with Directive 2009/125/EC for ERP

Technical Specifications

Standard Voltage	: 230 V
Frequency	: 50 / 60 Hz
Protection Level	: IP 44
Insulation Class	: F
Engine Power	: 44 Watt
Maximum Operating Pressure	: 10 bar (1000 kPa)
Fluid Temperature	: between +2° C and +95 ° C range
Maximum Environment Temperature	: 40 °C
Fluid Characteristics	: Clean, solid particles and mineral oil-free, non-viscous, chemically neutral, proximal to water character (max. 30% glycol)

Technical Data Sheets

MODELS	Distance Between Flanges mm	Electrical Values Voltage 50 Hz	P1 Max W	In A	EEI Energy Effiency Index	Hydraulic Values Q=m³/h	0	0,6	1,2	1,8	2,4	3
						Q=l/min	0	10	20	30	40	50
EVOSTA 40-70/130 1/2	130	230 V	6 - 44	0,08 - 0,39	EEI ≤ 0,23	H (m)	6,88	5,5	4,42	3,35	2,41	1,17
EVOSTA 40-70/130	130	230 V	6 - 44	0,08 - 0,39	EEI ≤ 0,23		6,88	5,5	4,42	3,35	2,41	1,17
EVOSTA 40-70/180	180	230 V	6 - 44	0,08 - 0,39	EEI ≤ 0,23		6,88	5,5	4,42	3,35	2,41	1,17

EVOTRON Series

Frequency Convertor Circulation Pumps

WATER BOOSTERS - PUMP SYSTEMS

- Reduces high-pressure in the system
- Decreases noise and vibrations to the minimum level
- Extends life-span of the circulator considerably
- Provides energy saving at a higher level
- Compatible with Directive 2009/125/EC for ERP

baymak

Applications

- High-rise buildings
- In-house
- Schools
- Housing Estates
- Clinics and hospitals
- Office buildings

Protection Level : IP 44
Insulation Class : F
Standard Voltage : 230 V - 50 / 60 Hz
Operating Range : 0,4 - 4.2 m³/h, 8 meters of Discharge height
Fluid Temperature : between -10 ° C and +110 ° C range
Fluid Characteristics : Clean, solid particles and mineral oil-free, non-viscous, chemically neutral, proximal to water character (max. 30% glycol)
Maximum Operating Pressure : 10 bar (1000 kPa)

Technical Data Sheets

Models	DISTANCE BETWEEN FLANGES mm	ELECTRICAL VALUES			EEI ENERGY EFFICIENCY INDEX	HYDRAULIC VALUES							
		VOLTAGE 50 Hz	P1 MAX W	Ln A		Q=m³/h	0	0,6	1,2	1,8	2,4	3	4,2
EVOTRON 40/130	130	230 V	5 - 27	0,05 - 0,26	EEI ≤ 0,20		4	3,2	2,3	1,7	1,1		
EVOTRON 40/130 (1/2)	130	230 V	5 - 27	0,05 - 0,26	EEI ≤ 0,20		4	3,2	2,3	1,7	1,1		
EVOTRON 40/180	180	230 V	5 - 27	0,05 - 0,26	EEI ≤ 0,19		4	3,2	2,3	1,7	1,1		
EVOTRON 40/180 X	180	230 V	5 - 27	0,05 - 0,26	EEI ≤ 0,19		4	3,2	2,3	1,7	1,1		
EVOTRON 60/130	130	230 V	5 - 43	0,05 - 0,40	EEI ≤ 0,23		6	5,6	4,5	3,5	2,6	1,8	
EVOTRON 60/130 (1/2)	130	230 V	5 - 43	0,05 - 0,40	EEI ≤ 0,23	H	6	5,6	4,5	3,5	2,6	1,8	
EVOTRON 60/180	180	230 V	5 - 43	0,05 - 0,40	EEI ≤ 0,23	(m)	6	5,6	4,5	3,5	2,6	1,8	
EVOTRON 60/180 X	180	230 V	5 - 43	0,05 - 0,40	EEI ≤ 0,23		6	5,6	4,5	3,5	2,6	1,8	
EVOTRON 80/130	130	230 V	5 - 66	0,05 - 0,60	EEI ≤ 0,25		8	7,8	6	4,8	3,9	3,1	1,6
EVOTRON 80/130 (1/2)	130	230 V	5 - 66	0,05 - 0,60	EEI ≤ 0,25		8	7,8	6	4,8	3,9	3,1	1,6
EVOTRON 80/180	180	230 V	5 - 66	0,05 - 0,60	EEI ≤ 0,25		8	7,8	6	4,8	3,9	3,1	1,6
EVOTRON 80/180 X	180	230 V	5 - 66	0,05 - 0,60	EEI ≤ 0,25		8	7,8	6	4,8	3,9	3,1	1,6

EVOPLUS Series

Frequency Convertor Small-Size Industrial Circulation Pumps

- Reduces high-pressure in the system
- Decreases noise and vibrations to the minimum level
- Extends life-span of the circulator considerably
- Provides energy saving at a higher level
- Compatible with Directive 2009/125/EC for ERP

baymak

Applications

- High-rise buildings
- In-house
- Schools
- Housing Estates
- Clinics and hospitals
- Office buildings

Protection Level : IP 44
Insulation Class : F
Standard Voltage : 220/240 V - 50 / 60 Hz
Operating Range : 2 - 12 m^3/h, 11 meters of Discharge height
Fluid Temperature : between -10 °C and +110 °C range
Fluid Characteristics : Clean, solid particles and mineral oil-free, non-viscous, chemically neutral, proximal to water character (max. 30% glycol)
Maximum Operating Pressure : 16 bar (1600 kPa)

Technical Data Sheets

MODELS	DISTANCE BETWEEN FLANGES mm	ELECTRICAL VALUES			EEI ENERGY EFFICIENCY INDEX	HYDRAULIC VALUES							
		VOLTAGE 50 Hz	P1 MAX W	Ln A		Q=m^3/h	0	2,4	3	4,2	5,4	7,2	9,6
EVOPLUS 40/180 M	180	220/240 V	70	0,52	EEI ≤ 0,23		4,2	4,2	4,2	3,3	2,5	1,3	
EVOPLUS 60/180 M	180	220/240 V	100	0,72	EEI ≤ 0,22		6,1	6,1	5,6	4,6	3,6	2,2	
EVOPLUS 80/180 M	180	220/240 V	135	0,95	EEI ≤ 0,22		8,2	8,2	7,3	6	4,9	3,3	
EVOPLUS 110/180 M	180	220/240 V	170	1,18	EEI ≤ 0,22		11,1	10,1	9,6	8,1	6,8	5	2,6
EVOPLUS 40/180 XM	180	220/240 V	70	0,51	EEI ≤ 0,21		4,1	4,1	4,2	3,3	2,5	1,3	
EVOPLUS 60/180 XM	180	220/240 V	100	0,71	EEI ≤ 0,21		6,1	6,1	5,6	4,6	3,6	2,2	
EVOPLUS 80/180 XM	180	220/240 V	135	0,93	EEI ≤ 0,21		8,1	8,1	7,3	6	4,9	3,3	
EVOPLUS 110/180 XM	180	220/240 V	170	1,18	EEI ≤ 0,21	H	11,3	10,2	9,6	8,1	6,8	5	2,6
EVOPLUS B 40/220.32 M	220	220/240 V	75	0,55	EEI ≤ 0,22	(m)	4,2	4,2	4,2	3,3	2,5	1,3	
EVOPLUS B 60/220.32 M	220	220/240 V	105	0,75	EEI ≤ 0,22		6,1	6,1	5,6	4,6	3,6	2,2	
EVOPLUS B 80/220.32 M	220	220/240 V	140	0,97	EEI ≤ 0,22		8	8	7,3	6	4,9	3,3	
EVOPLUS B 110/220.32 M	220	220/240 V	190	1,3	EEI ≤ 0,22		11,2	10,5	9,6	8,1	6,8	5	2,6
EVOPLUS B 40/250.40 M	250	220/240 V	75	0,55	EEI ≤ 0,21		4,2	4,2	4,2	3,3	2,5	1,3	
EVOPLUS B 60/250.40 M	250	220/240 V	105	0,75	EEI ≤ 0,21		6,1	6,1	5,6	4,6	3,6	2,2	
EVOPLUS B 80/250.40 M	250	220/240 V	140	0,97	EEI ≤ 0,21		8	8	7,3	6	4,9	3,3	
EVOPLUS B 110/250.40 M	250	220/240 V	190	1,3	EEI ≤ 0,21		11,2	10,5	9,6	8,1	6,8	5	2,6

EVOPLUS Series

Frequency Convertor Industrial Circulation Pumps

- Reduces high-pressure in the system
- Decreases noise and vibrations to the minimum level
- Extends life-span of the circulator considerably
- Provides energy saving at a higher level
- Compatible with Directive 2009/125/EC for ERP

WATER BOOSTERS - PUMP SYSTEMS

baymak

Applications

- High-rise buildings
- In-house
- Schools
- Housing Estates
- Clinics and hospitals
- Office buildings

Protection Level : IP 44
Insulation Class : F
Standard Voltage : 220/240 V - 50 / 60 Hz
Operating Range : 2 - 75,6 m³/h, 18 meters of Discharge height
Fluid Temperature : between -10 °C and +110 °C range
Fluid Characteristics : Clean, solid particles and mineral oil-free, non-viscous, chemically neutral, proximal to water character (max. 30% glycol)
Maximum Operating Pressure : 16 bar (1600 kPa)

Technical Data Sheets

MODELS	DISTANCE BETWEEN FLANGES mm	ELECTRICAL VALUES VOLTAGE 50 Hz	P1 MAX W	Ln A	EEI ENERGY EFFICIENCY INDEX	HYDRAULIC VALUES Q=m³/h	0	4,2	5,4	7,2	9,6	12	14,4	18	24	30	36	42	54	72
EVOPLUS B 120/220.32 M	220	220/240 V	340	1,7	EEI ≤ 0,22		12,1	11,5	10,7	9,5	7,9	6,3	4,7	2,2						
EVOPLUS B 40/220.40 M	220	220/240 V	90	0,7	EEI ≤ 0,24		4	3,6	3,1	2,5	1,7									
EVOPLUS B 60/220.40 M	220	220/240 V	175	1	EEI ≤ 0,23		6		5,9	5,1	4,1	3	2							
EVOPLUS B 80/220.40 M	220	220/240 V	260	1,35	EEI ≤ 0,21		8		7,9	7,4	6,1	5	3,7	2						
EVOPLUS B 100/220.40 M	220	220/240 V	350	1,75	EEI ≤ 0,20		10			9,7	8,3	7	5,5	3,5						
EVOPLUS B 120/250.40 M	250	220/240 V	465	2,2	EEI ≤ 0,20		12			11,5	10,1	8,7	7,3	5,2						
EVOPLUS B 150/250.40 M	250	220/240 V	610	2,9	EEI ≤ 0,20		15			14,5	12,8	11,3	9,7	7,5	3,8					
EVOPLUS B 180/250.40 M	250	220/240 V	610	2,9	EEI ≤ 0,20		18		16,2	14,6	13	11,2	9,6	7,4	3,9					
EVOPLUS B 40/240.50 M	240	220/240 V	140	0,87	EEI ≤ 0,23		4		3,9	3,6	3,1	2,6	2,1	1,4						
EVOPLUS B 60/240.50 M	240	220/240 V	260	1,35	EEI ≤ 0,21		6				5,4	4,7	4	3,2	1,6					
EVOPLUS B 80/240.50 M	240	220/240 V	330	1,7	EEI ≤ 0,21		8			7,4	6,6	5,9	5,2	4,2	2,6					
EVOPLUS B 100/280.50 M	280	220/240 V	430	2,1	EEI ≤ 0,20		10			9,4	8,4	7,5	6,7	5,5	3,6	2				
EVOPLUS B 120/280.50 M	280	220/240 V	530	2,5	EEI ≤ 0,19		12			11	9,9	9	8,2	6,9	4,8	3				
EVOPLUS B 150/280.50 M	280	220/240 V	640	3	EEI ≤ 0,19		15,3			12,4	11,5	10,6	9,6	8,3	6,2	4,2				
EVOPLUS B 180/280.50 M	280	220/240 V	750	3,45	EEI ≤ 0,19		17,1			14	13	12	11,1	9,7	7,4	5,2	3,1			
EVOPLUS B 40/340.65 M	340	220/240 V	190	1,1	EEI ≤ 0,21	H	4			4	3,8	3,4	3	2,4	1,4					
EVOPLUS B 60/340.65 M	340	220/240 V	355	1,8	EEI ≤ 0,20	(m)	6				6	5,9	5,4	4,7	3,7	2,2				
EVOPLUS B 80/340.65 M	340	220/240 V	465	2,2	EEI ≤ 0,19		8				7,8	7,4	6,8	5,9	4,6	3,5	2			
EVOPLUS B 100/340.65 M	340	220/240 V	590	2,8	EEI ≤ 0,18		10,1				9,8	9,1	8,4	7,6	6,1	4,7	3,1			
EVOPLUS B 120/340.65 M	340	220/240 V	730	3,45	EEI ≤ 0,18		12				11,5	10,8	10	9	7,4	5,9	4,6	2,8		
EVOPLUS B 150/340.65 M	340	220/240 V	1210	5,5	EEI ≤ 0,18		15,2					14,9	14,7	14	12,1	10,3	8,5	6,9		
EVOPLUS B 40/360.80 M	360	220/240 V	330	1,65	EEI ≤ 0,19		4							4	3,1	2,2	1,4			
EVOPLUS B 60/360.80 M	360	220/240 V	535	2,5	EEI ≤ 0,20		6							6	5,2	4	3	2		
EVOPLUS B 80/360.80 M	360	220/240 V	670	3	EEI ≤ 0,20		8							8	6,7	5,4	4,2	3,2		
EVOPLUS B 100/360.80 M	360	220/240 V	1005	4,5	EEI ≤ 0,19		10								9,7	8,3	6,7	5,4	3	
EVOPLUS B 120/360.80 M	360	220/240 V	1235	5,5	EEI ≤ 0,19		12,1								11,6	9,9	8,3	6,8	4,1	
EVOPLUS B 40/450.100 M	450	220/240 V	530	2,5	EEI ≤ 0,19		4									3,9	3	2		
EVOPLUS B 60/450.100 M	450	220/240 V	760	3,5	EEI ≤ 0,18		6									5,7	4,7	3,6	1,3	
EVOPLUS B 80/450.100 M	450	220/240 V	1080	4,8	EEI ≤ 0,18		8									8	7,2	5,7	3,4	
EVOPLUS B 100/450.100 M	450	220/240 V	1380	6	EEI ≤ 0,19		10,1									10,1	9,2	7,6	4,9	0,7
EVOPLUS B 120/450.100 M	450	220/240 V	1560	7	EEI ≤ 0,19		12,2									11,8	10,4	8,7	5,9	1,5

ALM - ALP Series IN-LINE Dry Rotor Circulation Pumps
(Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

In-line connection, opportunity to use for industrial and domestic heating & cooling water circulation. Technopolymer fan (impeller) and carbon/ceramic mechanical seal. 2-pole induction motors (2900 rpm/min) for ALP versions and 4-pole induction motors (1450 rpm/min) for ALM versions. Thermal protection and protection against over-current in single-phase models, and protection against over-current in three-phase models must be maintained by use of panel compliant with the norms. Pump housing and motor housing support are molding.

Protection Level : IP55
Insulation Class : F
Operating Range : 1,5-8,4 m³/h flow rate - pressure up to 21 mWc
Fluid Temperature : +15°C / 120°C
Fluid Characteristics : Clean, solid particle-free, non-viscous, non-aggressive, chemically neutral water
Maximum Operating Pressure : 10 bar (1000 kPa)

MODELS	DISTANCE BETWEEN UNIONS mm	VOLTAGE 50 Hz	Rpm d/dk.	P2-POWER kW		HYDRAULIC VALUES							
					Q=m³/h Q=l/dk.	0 0	1,2 20	2,4 40	3,6 60	4,8 80	6 100	7,2 120	8,4 140
ALM 500 M	250	1x220-240 V	1425	0,25	H(mSS)	5,5	5,4	5,3	4,8	4,1	3	1,5	
ALM 500 T	250	3x230 V / 3x400 V	1465	0,25		5,5	5,4	5,3	4,8	4,1	3	1,5	
ALP 2000 M	250	1x220-240 V	2870	0,55		21,1	20,6	19,6	18	16	13,8	10,5	5,3
ALP 2000 T	250	1x220-240 V	2830	0,55		21,1	20,6	19,6	18	16	13,8	10,5	5,3

baymak

KLM-KLP & DKLM-DKLP Series IN-LINE Dry Rotor Circulation Pumps (Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

Pump housing and motor housing support are molding. Pressure class is PN10 and threaded openings are available over the input - output flanges for reading the pressure information. Pump fan (impeller) is made of techno-polymer material whereas mechanical seal is carbon/ceramic based. 4-pole induction motors (1400 rpm/min) are used for KLM and DKLM models, and 2-pole induction motors (2800 rpm/min) are used for KLP and DKLP models. Thermal overload protection and protection against over-current are available in single-phase models. Three-phase models must be protected against over-current by use of a panel compliant with the norms. Outlet flap is available for the outlet of twin models.

Operating Range	: 2 – 67 m^3/h flow rate - pressure up to 13,7 mWc
Fluid Temperature	: -15°C / 120°C
Fluid Characteristics	: Clean, solid particle-free, non-viscous, chemically neutral water
Maximum Ambient Temperature	: 40°C
Maximum Operating Pressure	: 10 bar (1000 kPa)
Protection Level	: IP55
Insulation Class	: F

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES																
					Q=m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	12	14,4	16,8	18	24	30	36	48	60
					Q=l/dk.	0	40	60	80	100	120	140	160	200	240	280	300	400	500	600	800	1000
KLM 40-300 M	250	DN 40	1x230 V	0,25		3,4	3,2	3	2,6	2,3	1,7											
KLM 40-300 T	250	DN 40	3x230-400 V	0,25		3,4	3,2	3	2,6	2,3	1,7											
KLP 40-600 M	250	DN 40	1x230 V	0,37		8,2			7,8	7,4	6,9	6,3	5,7	4								
KLP 40-600 T	250	DN 40	3x230-400 V	0,37		8,2			7,8	7,4	6,9	6,3	5,7	4								
KLP 40-900 M	250	DN 40	1x230 V	0,37		10,2			9,8	9,4	8,8	8,2	7,4	5,6								
KLP 40-900 T	250	DN 40	3x230-400 V	0,37		10,2			9,8	9,4	8,8	8,2	7,4	5,6								
KLP 40-1200 M	250	DN 40	1x230 V	0,55		13,7			13,2	12,6	11,9	11,2	10,4	8,4	5,9							
KLP 40-1200 T	250	DN 40	3x230-400 V	0,55		13,7			13,2	12,6	11,9	11,2	10,4	8,4	5,9							
KLM 50-300 M	280	DN 50	1x230 V	0,25		2,9			2,8	2,7	2,6	2,5	2,3	1,8	1,3							
KLM 50-300 T	280	DN 50	3x230-400 V	0,25		2,9			2,8	2,7	2,6	2,5	2,3	1,8	1,3							
KLM 50-600 M	280	DN 50	1x230 V	0,25		5,4			5,2	4,9	4,7	4,5	4,3	3,8	3,2	2,5	2					
KLM 50-600 T	280	DN 50	3x230-400 V	0,25		5,4			5,2	4,9	4,7	4,5	4,3	3,8	3,2	2,5	2					
KLP 50-900 M	280	DN 50	1x230 V	0,75	H(mSS)	8,9				8,8	8,7	8,6	8,5	8	7,4	6,6	6,3	3,9				
KLP 50-900 T	280	DN 50	3x230-400 V	0,75		8,9				8,8	8,7	8,6	8,5	8	7,4	6,6	6,3	3,9				
KLP 50-1200 M	280	DN 50	1x230 V	0,75		12				12	11,8	11,6	11	10,5	9,8	9	8,6	6,2				
KLP 50-1200 T	280	DN 50	3x230-400 V	0,75		12				12	11,8	11,6	11	10,5	9,8	9	8,6	6,2				
KLM 65-300 T	340	DN 65	3x230-400 V	0,25		3,1				3	2,9	2,8	2,7	2,6	2,4	2	1,8					
KLM 65-600 T	340	DN 65	3x230-400 V	0,37		5,5						5,3	5	4,7	4,6	4	3,8	2,5				
KLP 65-900 T	340	DN 65	3x230-400 V	1,1		9							8,8	8,6	8,5	8,1	8	7	5,5	3,5		
KLP 65-1200 T	340	DN 65	3x230-400 V	1,1		12								11,6	11,4	11,2	11	10	8,8	6,7		
KLM 80-300 T	360	DN 80	3x230-400 V	0,25		3,3								3,2	3,1	3	2,9	2,7	2	1,2		
KLM 80-600 T	360	DN 80	3x230-400 V	0,75		5,7									5,8	5,8	5,7	5,5	5	4,3	2,5	
KLP 80-900 T	360	DN 80	3x230-400 V	1,84		8,8									8,7	8,6	8,5	8,4	8	7,7	6	
KLP 80-1200 T	360	DN 80	3x230-400 V	1,84		11,8												11,6	11,5	11	9,7	7,2

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES																
					Q=m³/h	0	2,4	3,6	4,8	6	7,2	8,4	9,6	12	14,4	16,8	18	24	30	36	48	60
					Q=l/dk.	0	40	60	80	100	120	140	160	200	240	280	300	400	500	600	800	1000
DKLM 40-300 M	250	DN 40	1x230 V	0,25		3,4	3,2	3	2,6	2,3	1,7											
DKLM 40-300 T	250	DN 40	3x230-400 V	0,25		3,4	3,2	3	2,6	2,3	1,7											
DKLP 40-600 M	250	DN 40	1x230 V	0,37		8,2			7,8	7,4	6,9	6,3	5,7	4								
DKLP 40-600 T	250	DN 40	3x230-400 V	0,37		8,2			7,8	7,4	6,9	6,3	5,7	4								
DKLP 40-900 M	250	DN 40	1x230 V	0,37		10,2			9,8	9,4	8,8	8,2	7,4	5,6								
DKLP 40-900 T	250	DN 40	3x230-400 V	0,37		10,2			9,8	9,4	8,8	8,2	7,4	5,6								
DKLP 40-1200 M	250	DN 40	1x230 V	0,55		13,7			13,2	12,6	11,9	11,2	10,4	8,4	5,9							
DKLP 40-1200 T	250	DN 40	3x230-400 V	0,55		13,7			13,2	12,6	11,9	11,2	10,4	8,4	5,9							
DKLM 50-300 M	280	DN 50	1x230 V	0,25		2,9			2,8	2,7	2,6	2,5	2,3	1,8	1,3							
DKLM 50-300 T	280	DN 50	3x230-400 V	0,25		2,9			2,8	2,7	2,6	2,5	2,3	1,8	1,3							
DKLM 50-600 M	280	DN 50	1x230 V	0,25		5,4			5,2	4,9	4,7	4,5	4,3	3,8	3,2	2,5	2					
DKLM 50-600 T	280	DN 50	3x230-400 V	0,25		5,4			5,2	4,9	4,7	4,5	4,3	3,8	3,2	2,5	2					
DKLP 50-900 M	280	DN 50	1x230 V	0,75	H(mSS)	8,9				8,8	8,7	8,6	8,5	8	7,4	6,6	6,3	3,9				
DKLP 50-900 T	280	DN 50	3x230-400 V	0,75		8,9				8,8	8,7	8,6	8,5	8	7,4	6,6	6,3	3,9				
DKLP 50-1200 M	280	DN 50	1x230 V	0,75		12				12	11,8	11,6	11	10,5	9,8	9	8,6	6,2				
DKLP 50-1200 T	280	DN 50	3x230-400 V	0,75		12				12	11,8	11,6	11	10,5	9,8	9	8,6	6,2				
DKLM 65-300 T	340	DN 65	3x230-400 V	0,25		3,1				3	2,9	2,8	2,7	2,6	2,4	2	1,8					
DKLM 65-600 T	340	DN 65	3x230-400 V	0,37		5,5						5,3	5	4,7	4,6	4	3,8	2,5				
DKLP 65-900 T	340	DN 65	3x230-400 V	1,1		9							8,8	8,6	8,5	8,1	8	7	5,5	3,5		
DKLP 65-1200 T	340	DN 65	3x230-400 V	1,1		12								11,6	11,4	11,2	11	10	8,8	6,7		
DKLM 80-300 T	360	DN 80	3x230-400 V	0,25		3,3								3,2	3,1	3	2,9	2,7	2	1,2		
DKLM 80-600 T	360	DN 80	3x230-400 V	0,75		5,7									5,8	5,8	5,7	5,5	5	4,3	2,5	
DKLP 80-900 T	360	DN 80	3x230-400 V	1,84		8,8									8,7	8,6	8,5	8,4	8	7,7	6	
DKLP 80-1200 T	360	DN 80	3x230-400 V	1,84		11,8												11,6	11,5	11	9,7	7,2

CM Series IN-LINE Dry Rotor Circulation Pumps
(Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

CM series circulation pumps with in-line connection are appropriate for water circulation in industrial and domestic heating, and air-conditioning systems. Pump body, motor support bar, fan (impeller) and fan protective cover are made of casting material. Pressure class is PN16 and openings are available over the flanges for the opportunity to read the pressure information. Mechanical seal is carbon/ceramic. 4-pole (1450 rpm/min) external cooling induction motor is used. Use of external thermic protection is recommended.

Operating Range	: 1,2 – 420 m^3/h flow rate - pressure up to 41 mWc
Fluid Temperature	: -10°C / 140°C
Fluid Characteristics	: Clean, solid particle-free, non-viscous, chemically neutral water
Maximum Ambient Temperature	: 40°C
Maximum Operating Pressure	: 16 bar (1600 kPa)
Protection Level	: IP55
Insulation Class	: F

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	1,2	2,4	3	3,6	4,8	6	12	18	24	30	36	42	48
						Q=i/dk.	0	20	40	50	60	80	100	200	300	400	500	600	700	800
CM 40-440 T	390	DN 40	3x230-400 V	0,75			4,4	4,4	4,3	4,3	4,2	3,8	3,5							
CM 40-540 T	390	DN 40	3x230-400 V	0,75			5,4	5,4	5,3	5,2	5,1	4,8	4,5							
CM 40-670 T	390	DN 40	3x230-400 V	0,75			6,7	6,7	6,7	6,6	6,5	6,2	5,8							
CM 40-870 T	390	DN 40	3x230-400 V	0,75			8,7	8,7	8,6	8,6	8,5	8,2	7,9							
CM 40-1300 T	380	DN 40	3x230-400 V	0,75						13	12,9	12,5	12,4							
CM 40-1450 T	380	DN 40	3x230-400 V	1,1								14,4	14,3	9,8	6					
CM 50-510 T	425	DN 50	3x230-400 V	0,75							5	4,6	4,2	11,8	8					
CM 50-630 T	425	DN 50	3x230-400 V	0,75							6,2	5,8	5,5							
CM 50-780 T	425	DN 50	3x230-400 V	0,75							7,7	7,4	7,1							
CM 50-1000 T	425	DN 50	3x230-400 V	0,75							10,1	9,8	9,6	6,8						
CM 50-1270 T	400	DN 50	3x230-400 V	1,1		H(mSS)							12,7	11,2	8,5					
CM 50-1420 T	400	DN 50	3x230-400 V	1,1									14,2	13	10	6				
CM-G 65-420/A/BAQUE/0,25	360	DN 65	3x230-400 V	0,25			4,2						4,1	3,7	3	2,1				
CM-G 65-540/A/BAQUE/0,33	360	DN 65	3x230-400 V	0,37			5,4						5,3	5	4,4	3,5				
CM-G 65-660/A/BAQUE/0,55	360	DN 65	3x230-400 V	0,55			6,6						6,5	6,2	5,7	4,8				
CM-G 65-760/A/BAQUE/0,55	360	DN 65	3x230-400 V	0,55			7,6						7,7	7,6	6,7	5,5				
CM-G 65-920/A/BAQUE/0,75	360	DN 65	3x230-400 V	0,75			9,2						9,2	9	8,4	7,4	5,7			
CM-G 65-1080/A/BAQUE/1,1	475	DN 65	3x230-400 V	1,1			1,8							10,8	10,6	10,2	9,5	8,6	7,3	
CM-G 65-1200/A/BAQUE/1,5	475	DN 65	3x230-400 V	1,5			12							12	11,9	11,5	10,8	10,1	8,9	
CM-G 65-1530/A/BAQUE/2,2	475	DN 65	3x230-400 V	2,2			15,3							15,3	15,2	14,8	14	13,3	12,1	10,8
CM-G 65-1680/A/BAQUE/3	475	DN 65	3x230-400 V	3			16,8							16,8	16,5	16,1	15,5	14,6	13,6	12,4
CM-G 65-2380/A/BAQUE/4	475	DN 65	3x230-400 V	4			23,8							24	23,8	23,4	22,7	21,6	20,4	19

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	12	18	24	30	36	42	48	60	72	84	90	102	114	120	150	180
						Q=i/dk.	0	200	300	400	500	600	700	800	1000	1200	1400	1500	1700	1900	2000	2500	3000
CM 80-550/A/BAQE/0,55	360	DN 80	3x230-400 V	0,55			5,5	5,2	5	4,7	4,3	3,9	3,3	2,6									
CM-G 80-650/A/BAQE/0,75	360	DN 80	3x230-400 V	0,75			6,5	6,3	6,1	5,8	5,5	5	4,5	3,9									
CM-G 80-740/A/BAQE/1,1	440	DN 80	3x230-400 V	1,1			7,4	7,4	7,3	7,2	6,9	6,7	6,3	5,8	4,4								
CM-G 80-890/A/BAQE/1,5	440	DN 80	3x230-400 V	1,5			8,9		8,8	8,7	8,6	8,3	8	7,6	6,6								
CM-G 80-1050/A/BAQE/2,2	440	DN 80	3x230-400 V	2,2			10,5			10,4	10,3	10,2	9,9	9,6	8,8								
CM-G 80-1530/A/BAQE/3	500	DN 80	3x400 V	3			15,3			15,4	15,3	15	14,6	14,1	12,9	11,3							
CM-G 80-1700/A/BAQE/4	500	DN 80	3x400 V	4			17			17,2	17,2	17,1	16,8	16,5	15,7	14,3	12,6						
CM-G 80-1410/A/BAQE/5,5	620	DN 80	3x400 V	5,5			24,1			23,8	23,6	23,3	22,8	22,3	20,8	18,6							
CM-G 80-2700/A/BAQE/7,5	620	DN 80	3x400 V	7,5			27						26	25,5	24,5	22,7	20,2	19					
CM-G 80-3420/A/BAQE/11	620	DN 80	3x400 V	11			34,2						33,2	33	32	30,7	29	28	25	21,7			
CM-G 100-510/A/BAQE/0,75	500	DN 100	3x230-400 V	0,75			5,1	4,9	4,8	4,7	4,7	4,4	4,2	3,8	3								
CM-G 100-650/A/BAQE/1,1	500	DN 100	3x230-400 V	1,1		H(mSS)	6,5	6,4	6,4	6,3	6,2	6	5,8	5,5	4,6								
CM-G 100-660/A/BAQE/1,5	550	DN 100	3x230-400 V	1,5			6,6				6,4	6,3	6,2	6	5,6	5	4,5	4,3	3,7	3			
CM-G 100-865/A/BAQE/2,2	550	DN 100	3x230-400 V	2,2			8,6				8,5	8,5	8,3	8,3	7,7	7,2	6,7	6,3	5,7	4,9	4,6		
CM-G 100-1020/A/BAQE/3	550	DN 100	3x400 V	3			10,2				10,2	10,1	10	9,9	9,7	9,3	8,8	8,6	7,9	7,2	6,7		
CM-G 100-1320/A/BAQE/4	550	DN 100	3x400 V	4			13,2						13,2	13,2	12,9	12,4	11,7	11,3	10,4	9,3	8,7		
CM-G 100-1650/A/BAQE/5,5	550	DN 100	3x400 V	5,5			16,5						16,6	16,5	16,2	16	15,4	15	14,3	13,3	12,7		
CM-G 100-2050/A/BAQE/7,5	670	DN 100	3x400 V	7,5			20,5						20,1	21	20,7	20	19,5	19	18	16,7	16		
CM-G 100-2550/A/BAQE/11	670	DN 100	3x400 V	11			25,5						25,5	25,5	25,1	25	24,2	24	23	21,5	21		
CM-G 100-3290/A/BAQE/15	670	DN 100	3x400 V	10,5			32,9								33	32,8	32	31,6	30,5	29,5	28,9	24	
CM-G 100-3680/A/BAQE/18,5	670	DN 100	3x400 V	18,5			36,8								37	36,8	36,5	36,1	35,5	34,5	34	29,5	
CM-G 100-4100/A/BAQE/22	670	DN 100	3x400 V	22			41								41,4	41	40,6	40,5	39,8	39	38,5	34,8	29

CP Series IN-LINE Dry Rotor Circulation Pumps
(Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

CP series circulation pumps with in-line connection are appropriate for water circulation in industrial and domestic heating, and air-conditioning systems. Pump body, motor support bar are made of casting material. Pressure class is PN16 and openings are available over the flanges for the opportunity to read the pressure information. Pump fan is techno-polymer based, whereas mechanical seal is carbon/ceramic. 2-pole (2900 rpm/min) external cooling induction motor is used. Use of external thermic protection is recommended.

Operating Range	: 3,6 – 420 m^3/h flow rate - pressure up to 102 mWc
Fluid Temperature	: -10°C / 140°C
Fluid Characteristics	: Clean, solid particle-free, non-viscous, chemically neutral water
Maximum Ambient Temperature	: 40°C
Maximum Operating Pressure	: 16 bar (1600 kPa)
Protection Level	: IP55
Insulation Class	: F

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	3,6	4,8	6	12	18	24	30	36
						Q=l/dk.	0	60	80	100	200	300	400	500	600
CP 40/1900T	390	DN 40	3x230-400 V	0,75			17,6	17,6	17,4	17	14				
CP 40/2300T	390	DN 40	3x230-400 V	1,1			21,8	21,8	21,3	21	18				
CP 40/2700T	390	DN 40	3x230-400 V	1,5			26,9	26,9	26,7	26,2	23,2				
CP 40/3500T	390	DN 40	3x230-400 V	2,21			34,8	34,9	34,7	34,2	31,7				
CP 40/3800T	380	DN 40	3x230-400 V	3						38	35	30			
CP 40/4700T	380	DN 40	3x230-400 V	4						47	44	39,5	35		
CP 40/5500T	425	DN 40	3x400 V	5,5						55	53	48	42		
CP 40/6200T	425	DN 40	3x400 V	7,5		H(mSS)				62	59	54	49		
CP 50/2200T	425	DN 50	3x230-400 V	1,1						20	16,5	11			
CP 50/2600T	425	DN 50	3x230-400 V	1,5						25	22	16			
CP 50/3100T	400	DN 50	3x230-400 V	2,2						31	28,5	24			
CP 50/4100T	400	DN 50	3x230-400 V	4						40,7	38,5	34,5	27,7		
CP 50/4600T	360	DN 50	3x400 V	5,5								44	41,5	37	31
CP 50/5100T	360	DN 50	3x400 V	7,5								50	47,5	42,5	37
CP 50/5650T	360	DN 50	3x400 V	7,5								55,5	53	49	44

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150
						Q=l/dk.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500
CP-G 65-1470/A/BAQE/1,5	360	DN 65	3x230-400 V	1,5			14,7	14,5	14,3	13,8	13	11,8	10,5	8,6	7											
CP-G 65-1900/A/BAQE/2,2	360	DN 65	3x230-400 V	2,2			19	18,7	18,4	17,8	17	15,9	14,6	13	11											
CP-G 65-2280/A/BAQE/3	360	DN 65	3x400 V	3			22,8	22,5	22,3	22	21,2	20,2	19	17,4	15,5	13,5										
CP-G 65-2640/A/BAQE/4	360	DN 65	3x400 V	4			26,4	26,2	26	25,6	25	24	23	21,5	19,5	17,5	15									
CP-G 65-3400/A/BAQE/5,5	360	DN 65	3x400 V	5,5			34			34	33,5	32,5	31	29,5	27	24										
CP-G 65-4100/A/BAQE/7,5	360	DN 65	3x400 V	7,5			41			41	41	40	39	37,5	35,5	33	30	26,5								
CP-G 65-4700/A/BAQE/11	475	DN 65	3x400 V	11			47					45,5	45	44,3	43,3	42	40,8	39	37	35	32,3					
CP-G 65-5500/A/BAQE/15	475	DN 65	3x400 V	15			55					56	55,5	54	53,5	52	51	49	47,5	45,5	43	41				
CP-G 65-6150/A/BAQE/18,5	475	DN 65	3x400 V	18,5			61,5					62	62	61,5	60,5	59	58	56,5	55	53	51	48,5	43			
CP-G 65-6750/A/BAQE/22	475	DN 65	3x400 V	22			67,5					68	67,5	67	66	65,5	64	62,5	61	59,5	57	55	50			
CP-G 65-7350/A/BAQE/22	475	DN 65	3x400 V	22			73,5					75	74,5	73,8	73,5	71	68,5	67	65	62,5	60	57	49			
CP-G 65-9250/A/BAQE/30	475	DN 65	3x400 V	30			92,5					94	94	94	94	91	89,5	87,5	85,6	83	81,5	78	72			
CP-G 80-1400/A/BAQE/2,2	360	DN 80	3x230-400 V	2,2		H(mSS)	14				13,8	13,3	12,9	12,5	12,1	11,4	10,8	10	9,2	8,3	7,5					
CP-G 80-1700/A/BAQE/3	360	DN 80	3x400 V	3			17				16,5	16	15,5	15	14,5	13,7	13	12	11	10	9					
CP-G 80-2050/A/BAQE/4	360	DN 80	3x400 V	4			20,5				20	19,5	19,1	18,5	18	17,5	16,5	15,8	14,8	14	12,5	11,5				
CP-G 80-2400/A/BAQE/5,5	360	DN 80	3x400 V	5,5			24				23,6	23,5	23,2	22,8	22,2	21,5	21	20	19,1	18,5	17,5	16,5	13,4			
CP-G 80-2770/A/BAQE/7,5	440	DN 80	3x400 V	7,5			27,7								27,5	27,3	27,1	26,7	25,8	25,6	24,9	24,5	23	21,2	20,1	
CP-G 80-3250/A/BAQE/11	440	DN 80	3x400 V	11			32,5								32,2	32	31,8	31,3	30,2	30	29,2	28,7	27	24,8	23,6	
CP-G 80-4000/A/BAQE/15	440	DN 80	3x400 V	15			40								40,2	40	39,8	39,5	39	38,5	38,2	37,5	36	34,5	33,5	26,9
CP-G 80-5150/A/BAQE/18,5	500	DN 80	3x400 V	18,5			51,5								52	52	51,5	50,5	50	49	48,5	47,5	45	42,5	41	
CP-G 80-5650/A/BAQE/22	500	DN 80	3x400 V	22			56,5								58	58	47,5	57	56,5	56	55	54,5	53	51	49	
CP-G 80-6850/A/BAQE/30	500	DN 80	3x400 V	30			68,5								70	70	70	68,5	69	68,8	68,5	67,5	66	64	63	57
CP-G 80-8600/A/BAQE/37	620	DN 80	3x400 V	27			86								83	82,5	82,5	82	81,5	81	80	79	76,5	73,5	72	60
CP-G 80-9600/A/BAQE/45	620	DN 80	3x400 V	45			96								92,5	92	92	91,5	91,5	91	90	89,5	87,5	85	83	72,5
CP-G 80-1200/A/BAQE/55	620	DN 80	3x400 V	55			102						101,6	101,5	101,3	101,1	100,7	100,3	99,7	99,1	98,3	97,5	95,4	92,9	91,5	83,2

MODELS	DISTANCE BETWEEN UNIONS mm	CONNECTION DIAMETER	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210	240	270
						Q=l/dk.	0	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	4000	4500
CP-G 100-1600/A/BAQE/4	500	DN 100	3x400 V	4			16	15	14,6	14,2	13,7	13,3	12,8	12,3	11,7	11	10	9,3	8						
CP-G 100-1950/A/BAQE/5,5	500	DN 100	3x400 V	5,5			19,5	19	18,9	18,7	18,4	18,1	17,5	17,2	16,9	16,5	15,8	14,5	13	12					
CP-G 100-2350/A/BAQE/7,5	500	DN 100	3x400 V	7,5			23,5	23,1	23	22,8	22,6	22,5	22	21,6	21,1	20,7	20,2	19	17,5	14,8	12				
CP-G 100-2400/A/BAQE/11	550	DN 100	3x400 V	11			24										22	21,4	20,4	20	17,4	16,8	12		
CP-G 100-3050/A/BAQE/15	550	DN 100	3x400 V	15			30,5										29	28,4	27,5	27	24,5	21,3	18,3		
CP-G 100-3550/A/BAQE/18,5	550	DN 100	3x400 V	18,5		H(mSS)	35,5										34,3	33,6	32,6	32,3	29,8	26,8	23,6	20	
CP-G 100-3850/A/BAQE/22	550	DN 100	3x400 V	22			38,5										37,2	36,8	36	35,8	33,5	30,8	27,5	24	
CP-G 100-4800/A/BAQE/30	550	DN 100	3x400 V	30			48										48,5	48,2	47,5	47	44,7	41	36	29	
CP-G 100-5600/A/BAQE/37	550	DN 100	3x400 V	37			56										58	57,5	57,2	57	55	52	48	43	
CP-G 100-6300/A/BAQE/45	550	DN 100	3x400 V	45			63										65,5	65	64	63	61,9	58,9	55,5	50,6	44,2
CP-G 100-8300/A/BAQE/55	670	DN 100	3x400 V	55			83										83,7	83,7	83,7	83,2	80,7	77,3	72,8	66,4	59,5

KLME-DKLME Series Requency Convertor IN-LINE Dry Rotor Circulation Pumps (Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

KLME and DKLME series circulation pumps with in-line connection are appropriate for water circulation circuits in domestic and industrial hot water, air-conditioning and cooling cycles. The pressure at different flow rates required by the system is kept constant via MCE/C inverter unit mounted over the pump. Pump body and motor support bar are made of casting material. Pump fan is techno-polymer, whereas mechanical seal is carbon/ceramic based. Pressure class is PN10. There are single models for KLME and KLPE models, and double models for DKLME and DKLPE models are available. 4-pole induction motors for KLME and DKLME models, and 2-pole induction motors for KLPE and DKLPE models are used. Motors have thermal protection and over-current protection.

Operating Range	: 0,4 – 5,4 m^3/h flow rate - pressure up to 13,7 mWc
Fluid Temperature	: -15°C / 120°C
Fluid Characteristics	: Clean, solid particle-free, non-viscous, chemically neutral water (water with maximum 30% glycol level can be used).
Maximum Ambient Temperature	: 40°C
Maximum Operating Pressure	: 10 Bar (1000 kPa)
Protection Level	: IP55
Insulation Class	: F

MODELS	VOLTAGE 50 Hz	P2-POWER kW	Q=m³/h Q=l/dk.	HYDRAULIC VALUES 0 0	4,8 80	6 100	7,2 120	8,4 140	9,6 160	12 200	18 300	30 500	36 600	48 800
KLPE 40-600 M MCE11/C	1x220-240 V	0,37		8,2	7,8	7,4	6,9	6,3	5,7	4				
KLPE 40-1200 M MCE11/C	1x220-240 V	0,55		13,7	12,2	12,6	11,9	11,2	10,4	8,4				
KLPE 50-600 M MCE11/C	1x220-240 V	0,25		5,4	5,2	4,9	4,7	4,5	4,3	3,8	2			
KLPE 50-1200 M MCE11/C	1x220-240 V	0,75		12			11,8	11,6	11	10,5	8,6			
KLPE 65-600 M MCE11/C	1x220-240 V	0,37		5,5				5,3	5	4,7	3,8			
KLPE 65-1200 M MCE11/C	1x220-240 V	1,1	H(mSS)	12						11,6	11	8,8	6,7	
KLPE 65-1200 T MCE30/C	3x400 V	1,1		12						11,6	11	8,8	6,7	
KLPE 80-600 M MCE11/C	1x220-240 V	0,75		5,7							5,7	5	4,3	2,5
KLPE 80-1200 M MCE22/C	1x220-240 V	1,84		11,8								11,5	11	9,7
KLPE 80-1200 T MCE30/C	3x400 V	1,84		11,8								11,5	11	9,7

MODELS	VOLTAGE 50 Hz	P2-POWER kW	Q=m³/h Q=l/dk.	HYDRAULIC VALUES 0 0	4,8 80	6 100	7,2 120	8,4 140	9,6 160	12 200	18 300	30 500	36 600	48 800
DKLPE 40-600 M MCE11/C	1x220-240 V	0,37		8,2	7,8	7,4	6,9	6,3	5,7	4				
DKLPE 40-1200 M MCE11/C	1x220-240 V	0,55		13,7	12,2	12,6	11,9	11,2	10,4	8,4				
DKLME 50-600 M MCE11/C	1x220-240 V	0,25		5,4	5,2	4,9	4,7	4,5	4,3	3,8	2			
DKLPE 50-1200 M MCE11/C	1x220-240 V	0,75		12			11,8	11,6	11	10,5	8,6			
DKLME 65-600 M MCE11/C	1x220-240 V	0,37		5,5				5,3	5	4,7	3,8			
DKLPE 65-1200 M MCE11/C	1x220-240 V	1,1	H(mSS)	12						11,6	11	8,8	6,7	
DKLPE 65-1200 T MCE30/C	3x400 V	1,1		12						11,6	11	8,8	6,7	
DKLME 80-600 M MCE11/C	1x220-240 V	0,75		5,7							5,7	5	4,3	2,5
DKLPE 80-1200 M MCE22/C	1x220-240 V	1,84		11,8								11,5	11	9,7
DKLPE 80-1200 T MCE30/C	3x400 V	1,84		11,8								11,5	11	9,7

CPE / CP-GE / DCPE Series Frequency Convertor IN-LINE Dry Rotor Circulation Pumps (Heating & Cooling (Air-Conditioning) & Solar Energy)

Technical Specifications

CPE ve DCPE series circulation pumps with in-line connection are appropriate for water circulation circuits in domestic and industrial hot water, air-conditioning and cooling cycles. The pressure at different flow rates required by the system is kept constant via MCE/C inverter unit mounted over the pump. Pump body and motor support bar are made of casting material. Pump fan (impeller) is cast iron and techno-polymer, whereas mechanical seal is carbon based. Pressure class is PN16. There are single models for CPE and CP-GE models, and double models for DCPE model are available. 2-pole induction motor is used in all of the models.

Operating Range	: 1,2 – 230 m^3/h flow rate - pressure up to 56 mWc
Fluid Temperature	: -15°C / 120°C (for DN40-DN50 and DCPE models) -15°C / 140°C (DN65-DN150)
Fluid Characteristics	: Clean, solid particle-free, non-viscous, chemically neutral water (water with maximum 30% glycol level can be used).
Maximum Ambient Temperature	: 40°C
Maximum Operating Pressure	: 16 Bar (1600 kPa)
Protection Level	: IP55
Insulation Class	: F

MODELS	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	3,6	4,8	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
				Q=l/dk.	0	60	80	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
CPE 40/2300 M MCE11/C IE2	1x220-240 V	1,1			21,8	21,8	21,3	21	18													
CPE 40/2300 T MCE30/C IE2	3x400 V	1,1			21,8	218	21,3	21	18													
CPE 40/3500 M MCE22/C IE2	1x220-240 V	2,2			34,8	34,9	34,7	34,2	31,7													
CPE 40/3500 T MCE30/C IE2	3x400 V	2,2			34,8	34,9	34,7	34,2	31,7													
CPE 40/4700 T MCE55/C IE2	3x400 V	4						47	44	39,5	35											
CPE 40/5500 M MCE55/C IE2	3x400 V	5,5						55	53	48	42											
CPE 40/6200 T MCE110/C IE2	3x400 V	7,5						62	59	54	49											
CPE 50/2600 M MCE15/C IE2	1x220-240 V	1,5						25	22	16												
CPE 50/2600 T MCE30/C IE2	3x400 V	1,5						25	22	16												
CPE 50/4100 T MCE30/C IE2	3x400 V	4						40,7	38,5	34,5	27,7											
CPE 50/4600 T MCE55/C IE2	3x400 V	5,5	H(mSS)							44	41,5	37	31									
CPE 50/5650 T MCE110/C IE2	3x400 V	7,5								55,5	53	49	44									
CP-GE 65-1470/A/BAQUE/1.5 M MCE11/C IE2	1x220-240 V	1,5			14,7			14,5	14,3	13,8	13	11,8	10,5	8,6	7							
CP-GE 65-1470/A/BAQUE/1.5 T MCE30/C IE2	3x400 V	1,5			14,7			14,5	14,3	13,8	13	11,8	10,5	8,6	7							
CP-GE 65-2280/A/BAQUE/3 T MCE30/C IE2	3x400 V	3			22,8			22,5	22,3	22	21,2	20,2	19	17,4	15,5	13,5						
CP-GE 65-2640/A/BAQUE/4 T MCE55/C IE2	3x400 V	4			26,4			26,2	26	25,6	25	24	23	21,5	19,5	17,5	15					
CP-GE 65-3400/A/BAQUE/5.5 T MCE55/C IE2	3x400 V	5,5			34					34	33,5	32,5	31	29,5	27	24						
CP-GE 65-4100/A/BAQUE/7.5 T MCE110/C IE2	3x400 V	7,5			41					41	41	40	39	37,5	35,5	33	30	26,5				
CP-GE 65-4700/A/BAQUE/11 T MCE110/C IE2	3x400 V	11			47							45,5	45	44,3	43,3	42	40,8	39	37	35	32,3	
CP-GE 65-5500/A/BAQUE/15 T MCE150/C IE2	3x400 V	15			55							56	55,5	54	53,5	52	51	49	47,5	47,5	43	41

MODELS	VOLTAGE 50 Hz	P2-POWER kW		HYDRAULIC VALUES Q=m³/h	0	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210
				Q=l/dk.	0	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500
CP-GE 80-1400/A/BAQUE/2.2 M MCE22/C IE2	1x220-240 V	2,2			14	13,8	13,3	12,9	12,5	12,1	11,4	10,8	10	9,2	8,3	7,5							
CP-GE 80-1400/A/BAQUE/2.2 T MCE30/C IE2	3x400 V	2,2			14	13,8	13,3	12,9	12,5	12,1	11,4	10,8	10	9,2	8,3	7,5							
CP-GE 80-2050/A/BAQUE/4 T MCE55/C IE2	3x400 V	4			20,5	20	19,5	19,1	18,5	18	17,5	16,5	15,8	14,8	14	12,5	11,5						
CP-GE 80-2400/A/BAQUE/5.5 T MCE55/C IE2	3x400 V	5,5			24	23,6	23,5	23,2	22,8	22,2	21,5	21	20	19,1	18,5	17,5	16,5	13,4					
CP-GE 80-2270/A/BAQUE/7.5 T MCE110/C IE2	3x400 V	7,5			27,7					27,5	27,3	27,1	26,7	25,8	25,6	24,9	24,5	23	21,2	20,1			
CP-GE 80-3250/A/BAQUE/11 T MCE110/C IE2	3x400 V	11			32,5					32,2	32	31,8	31,3	30,2	30	29,2	28,7	27	24,8	23,6			
CP-GE 80-4000/A/BAQUE/15 T MCE150/C IE2	3x400 V	15	H(mSS)		40					40,2	40	39,8	39,5	39	38,5	38,2	37,5	36	34,5	33,5	26,9		
CP-GE 100-1600/A/BAQUE/4 T MCE55/C IE2	3x400 V	4			16			15	14,6	14,2	13,7	13,3	12,8	12,3	11,7	11	10,4	9,3	8				
CP-GE 100-1950/A/BAQUE/5.5 T MCE55/C IE2	3x400 V	5,5			19,5			19	18,9	18,7	18,4	18,1	17,5	17,2	16,9	16,5	15,8	14,5	13	12			
CP-GE 100-2350/A/BAQUE/7.5 T MCE110/C IE2	3x400 V	7,5			23,5			23,1	23	22,8	22,6	22,5	22	21,6	21,1	20,7	20,2	19	17,5	14,8	12		
CP-GE 100-2400/A/BAQUE/11 T MCE110/C IE2	3x400 V	11			24												22	21,4	20,4	20	17,4	16,8	12
CP-GE 100-3050/A/BAQUE/15 T MCE150/C IE2	3x400 V	15			30,5												29	28,4	27,5	27	24,5	21,3	18,3

MODELS	VOLTAGE 50 Hz	P2-POWER kW	Q=m³/h Q=l/dk.	HYDRAULIC VALUES																
				6 100	7,5 125	9 150	10,5 175	12 200	13,5 225	15 250	18 300	21 350	24 400	27 450	30 500	36 600	42 700	48 800	540 900	60 1000
DCPE 40/1650 M MCE11/C IE2	1x220-240 V	0,75		16,5	15,5	14,5	13,5	12,3	11	9,5	6									
DCPE 40/2450 M MCE15/C IE2	1x220-240 V	1,5		24,5	24	23,5	23	22	21	20	16,5	13								
DCPE 40/2450 T MCE30/C IE2	3x400 V	1,5		24,5	24	23,5	23	22	21	20	16,5	13								
DCPE 50/1550 M MCE15/C IE2	1x220-240 V	1,5								15,5	15	14,1	13	11,8	10,5	7				
DCPE 50/1550 M MCE30/C IE2	3x400 V	1,5								15,5	15	14,1	13	11,8	10,5	7				
DCPE 50/2450 T MCE30/C IE2	3x400 V	3	H(mSS)							24,5	24	23,5	23	22	20,5	17				
DCPE 50/3650 T MCE55/C IE2	3x400 V	4								36,5	35,5	34,5	33,5	32,5	31	27				
DCPE 65/2300 T MCE30/C IE2	3x400 V	3										23	22,5	22	21,5	19,8	17,5	15		
DCPE 65/2650 T MCE55/C IE2	3x400 V	4											26,5	26	25,5	24,3	22,6	20,2	18	
DCPE 65/3250 M MCE55/C IE2	3x400 V	5,5											32,5	32	31,5	30,5	29,5	28	26	23,5
DCPE 65/3750 T MCE110/C IE2	3x400 V	7,5											37	36,5	36	35	34	32,5	31	29

MODELS	VOLTAGE 50 Hz	P2-POWER kW	Q=m³/h Q=l/dk.	HYDRAULIC VALUES																
				42 700	48 800	54 900	60 1000	75 1250	90 1500	105 1750	120 2000	135 2250	150 2500	165 2750	180 3000	195 3250	210 3500	225 3750	240 4000
DCPE 80/2530 T MCE110/C IE2	3x400 V	7,5		25,3	24,9	24,1	23,4	20,5	17	12,7									
DCPE 80/3050 T MCE110/C IE2	3x400 V	10		30,5	30	29,5	29	26,5	24	20,5	16								
DCPE 80/3650 T MCE150/C IE2	3x400 V	12,5		36,5	36	35,5	34,5	33	30	27	23	19							
DCPE 80/4100 T MCE150/C IE2	3x400 V	15		41	40,5	40	39,5	38	35,5	33	29	24							
DCPE 100/2450 T MCE110/C IE2	3x400 V	10	H(mSS)				24,5	23,5	22	20,5	18,5	16	13,5	10,5	7	3			
DCPE 100/2750 T MCE150/C IE2	3x400 V	12					27,5	26,5	25,5	24	22	20	17,5	15	12	8,6	5		
DCPE 100/2900 T MCE150/C IE2	3x400 V	15							29	28	26	24,5	22	20	17,5	14	11,3	7,5	3,5
DCPE 100/3300 T MCE150/C IE2	3x400 V	12,5					33	32,3	31	29	27	24,5	22	19					
DCPE 100/3750 T MCE150/C IE2	3x400 V	15						37,5	36,5	35	33	31	28,5	26					

WATER BOOSTERS - PUMP SYSTEMS

WATER BOOSTERS - PUMP SYSTEMS

Submersible Waste Water Pumps

baymak

DOMESTIC Submersible Waste Water Pumps (NOVA - FEKA)

Technical Specifications

Pump body, carrying handle, impeller, cap and suction path are made of technopolymer material. Motor, rotor shaft and screws are stainless steel. Triple O-ring seal and non-stop operating asynchronous submersible motor are outstanding features of the pump. The stator is delicately located into non-corrosive shirt. Rotor bedding is comprised of lubricated bearings for long life. Thermic motor protector is available against overcurrent in single-phase models. 5-meter plug-in cable is provided as standard with single-phase floater pumps.

Operating Range	: 1-16 m^3/h flow rate and discharge height up to 10.2 meters.	
Fluid Characteristics	: NOVA - Fibre-free blurry waters	
	FEKA - wastewater collected in cesspit tanks	
Fluid Temperature	: 0 °C ito + 35 °C	
Maximum immersion depth	: 7 meters	
Insulation Class	: F	
Protection Level	: IP 68	
Particle diameter passing through suction mouth	: NOVA 180 - NOVA 200	5 mm
	NOVA 300 - NOVA 600	10 mm
	FEKA 600	25 mm
Area of Use	: NOVA - Particle-free rain water, ground water	
	FEKA - Waste water containing particles (maximum 25 mm)	

CESSPIT Submersible Waste Water Pumps (FEKA VS - FEKA VX)

Technical Specifications

Volteks impeller centrifugal sewage pump is suitable for sewage and waste water containing solid matters up to 50 mm in diameter. FEKA VS model is completely stainless steel. The lower part and impeller of the FEKA VX model is made of technopolymer material. Rotor bedding is comprised of lubricated bearings for long life. Also large-size selection of bearings of the pump provides quiet operation. Three-phase models should be used with appropriate protection panels. 10 meter H07RN-F cables are provided as standard with single-phase and three-phase models .

Operating Range	: 0-32 m^3/h flow rate and discharge height up to 14 mWc.
Fluid Characteristics	: Suitable for non-aggressive sewage and waste water containing solid substances with maximum diameter of 50 mm
Fluid Temperature	: 0 °C to + 50 °C
Maximum Ambient Temperature	: +40 °C
Maximum immersion depth	: 10 meters
Insulation Class	: F
Protection Level	: IP 68
Standard Voltage	: 220-240 V 50 Hz Single-phase 400 V 50 Hz Three-phase

baymak

STAINLESS STEEL Submersible Waste Water Pumps (DRENAG)

Technical Specifications

Cantilevered pump body, impeller, motor flange, filter cover, cable protection are stainless steel, and motor liner is AISI 304 and motor is AISI 316 stainless steel. The cantilever is covered with plastic insulation. Mechanical seal system with oil-chamber is composed of silicon/siliconcarbide at the pump side and carbon / aluminum at the engine side. Asynchronous motor is cooled by the pumped fluid. Thermic motor protector against overcurrent is available in single-phase models. 10 meter plug-in power cable is supplied as standard.

Operating Range	: 3-35 m^3/h flow rate and discharge height up to 14,2 meters.
Fluid Characteristics	: Suitable for rain water, underground water, sandy water of construction site and generally non-aggressive waste water
Fluid Temperature	: 0 °C to + 50 °C
Maximum immersion depth	: 10 meters
Insulation Class	: F
Protection Level	: IP 68
Particle diameter passing through suction mouth	: 12 mm
Area of Use	: Sandy water, rain and ground water

INDUSTRIAL TYPE

Submersible Waste Water Pumps (DRENAG-GRINDER-FEKA)

Technical Specifications

DRENAG: Pump body, motor frame, adjusting ring impeller and adjusting disc are molded. Also, the adjusting disc is covered against wear with rubber. Pump shaft, cantilever, filter, bolts and screws are stainless steel. Mechanical seal is silicon/carbide.
Fluid Characteristics: Sandy, blurry and muddy waters at construction sites.
Particle Diameter to be able to pass through the Suction Inlet: 12 mm

FEKA: Pump body, motor frame, suction cover and reverse -flow vortex impeller is molded. Pump shaft, cantilever, filter, bolts and screws are stainless steel. Mechanical seal is carbon/ceramic.
Fluid Characteristics: Waste water and sewage containing particles (maximum 38 mm)
Particle Diameter to be able to pass through the Suction Inlet: 38 mm

GRINDER: The most important feature of this pump is the presence of steel shredder blade produced with micro-casting method. Pump body, motor frame, suction cover and adjustment ring impeller are molded. Pump shaft, cantilever, bolts and screws are stainless steel. Mechanical seal is silicon/carbide.
Fluid Characteristics: Waste water containing solid substances and/or long-size fibers. 10 meter power cable is supplied as standard with all models. Pumps must be run with the appropriate electrical panels.

Operating Range	: DRENAG	6-33 m^3/h flow rate and discharge height up to 19,2 m.
	FEKA	6-30 m^3/h flow rate and discharge height up to 15,5 m
	GRINDER	2-9 m^3/h flow rate and discharge height up to 26,5 m
Fluid Temperature	: 0 °C to + 55 °C	
Maximum immersion depth	: 10 meters	
Insulation Class	: F	
Protection Level:	: IP 68	

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FEKALIFT (Automatic Waste Water Collection and Transfer Unit)

Technical Specifications

Automatic units for the collection and transfer of waste water, are used in conditions when the waste water cannot be discharged with its own flow. The unit is directly mounted behind the WC and thus prevents unnecessary use of pipe and fittings. This unit is also suitable for use in buildings under construction and restoration, and etc. Depending on the model the taps and shower can be connected together with WC. FEKALIFT with its attractive design, superior technology and production quality, becomes essential for installing additional units whether at bottom elevations or at higher elevations in the buildings. The pump is powerful and quiet. Pump and shredding device are stainless steel. Thanks to the built-in pump cleaning system, the unit is maintenance-free. It is easy to install and also has been designed so as to link a shower tray. There is a check valve on the discharge side and by means of this check valve, the cover can be taken out without removing the discharge tube.

Flowrate	: 5,4 m^3/h
Pressure	: 7 meters Height or 70 meters horizontal length
Capacity	: Fekalift 100 A - 11 *l* / Fekalift 200 A - 16 *l* / Fekalift 300 A - 20 *l*
Fluid Temperature	: 60 °C

Waste-water Pumps Performance Range

MODELS		P2 NOMINAL		Q																	
Single-phase	Three-phase	kW	HP	m³/h	0	1	2	3	4,5	5	6	7	7,5	9	10	12	15	18	24	30	36
				//min	0	1,6	33,3	50	75	83,3	100	116,6	125	150	166,6	200	250	300	400	500	600
NOVA 180 M-A	-	0,22	0,3		4,95	4,45	3,9	3,15	1,7	1,15											
NOVA 180 M-NA	-	0,22	0,3		4,95	4,45	3,9	3,15	1,7	1,15											
NOVA 200 M-NA	-	0,22	0,3		7,1	6,6	6,1	5,6	4,9	4,7	4,2	3,7	3,5	2,8	2,3	1,5					
NOVA 300 M-A	-	0,22	0,3		7,18	6,7	6,23	5,8	5,2	5	4,6	4,2	4	3,42	3	2,2					
NOVA 600 M-A	-	0,55	0,75		10,2	9,7	9,3	8,9	8,3	8,1	7,8	7,4	7,2	6,6	6,1	5	3,1				
NOVA 600 M-NA	NOVA 600 T-NA	0,55	0,75		10,2	9,7	9,3	8,9	8,3	8,1	7,8	7,4	7,2	6,6	6,1	5	3,1				
FEKA 600 M-A	-	0,55	0,75		7,45	7,1	6,75	6,45	6,1	5,95	5,7	5,45	5,35	4,95	7,2	4,1	2,8				
FEKA 600 M-NA	FEKA 600 T-NA	0,55	0,75		7,45	7,1	6,75	6,45	6,1	5,95	5,7	5,45	5,35	4,95	7,2	4,1	2,8				
FEKA VS-VX 550 M-A	-	0,55	0,75		7,4	7,3	7,2	6,9	6,7	6,6	6,2	6,0	6,9	5,6	5,2	4,1	3,2	1,8			
FEKA VS-VX 550 M-NA	FEKA VS-VX 550 T-NA	0,55	0,75		7,4	7,3	7,2	6,9	6,7	6,6	6,2	6,0	6,9	5,6	5,2	4,1	3,2	1,8			
FEKA VS-VX 750 M-A	-	0,75	1		9,6	9,5	9,4	9,2	9,0	8,9	8,5	8,3	8,2	7,6	7,2	6,7	5,6	4,3	1,9		
FEKA VS-VX 750 M-NA	FEKA VS-VX 750 T-A	0,75	1	H	9,6	9,5	9,4	9,2	9,0	8,9	8,5	8,3	8,2	7,6	7,2	6,7	5,6	4,3	1,9		
FEKA VS-VX 1000 M-A	-	1,00	1,36	(m)	11,8	11,7	11,6	11,3	11,1	11,0	10,5	10,3	10,2	9,8	9,4	9,0	8,0	6,8	4,1		
FEKA VS-VX 1000 M-NA	FEKA VS-VX 1000 T-A	1,00	1,36		11,8	11,7	11,6	11,3	11,1	11,0	10,5	10,3	10,2	9,8	9,4	9,0	8,0	6,8	4,1		
FEKA VS-VX 1200 M-A	-	1,20	1,60		14	13,9	13,8	13,4	13,2	13,0	12,8	12,6	12,2	12,0	11,6	11,2	10,1	9,0	6,7		
FEKA VS-VX 1200 M-NA	FEKA VS-VX 1200 T-NA	1,20	1,60		14	13,9	13,8	13,4	13,2	13,0	12,8	12,6	12,2	12,0	11,6	11,2	10,1	9,0	6,7		
DRENAG 1000 M-A / M-NA	DRENAG 1000 T-NA	1	1,36		15,3			13,7	13,2	13	11,1	11,5	11,2	10,5	10	8,7	6,8	4,7			
DRENAG 1200 M-A / M-NA	DRENAG 1200 T-NA	1,2	1,6		17			15,4	14,7	14,5	13,8	13,4	13	12,4	11,8	10,7	9	7,3	3,3		
DRENAG 1400 M	-	1,1	1,5		19,2						17	16,5	16,3	15,9	15,6	14,6	13,5	12,1	9	5,5	
-	DRENAG 1800 T	1,5	2		21,5						20	19,8	19,6	10,9	18,9	18	16,5	15,2	12	8,5	4,5
FEKA 1400 M	-	1,1	1,5		13,9						12	11,6	11,4	11	10,8	9,9	8,6	7,8	5,7	3,4	
-	FEKA 1800 T	1,5	2		15,5						13,7	13,3	13,1	12,8	12	11,8	10,7	9,7	7,3	4,5	
GRINDER 1400 M	-	1,1	1,5		24,5	23,8	22,8	22,3	20,8	20,6	19	17,4	16,8	14,1	13						
-	GRINDER 1800 T	1,5	2		25,3			25	24	22,9	22,3	21,6	20,3	19,9	17	16					

WATER BOOSTERS - PUMP SYSTEMS

Deep Well Submersible Pumps

IDEA Series (4" Deep Well Submersible Pumps)

Technical Specifications

This submersible pumps are suitable for wells at 4" or larger size. It can be used for supply of running water, filling pressure tanks, systems that require pressure and irrigation systems. Single-phase and three-phase models are available.

Operating Range	: 0,4 - 2,4 m^3/h flow rate and discharge height up to 52 mWc.
Protection Class	: IP 68
Fluid Characteristics	: Clean and non-aggressive water
Fluid Temperature	: 0 - 35 °C

KESON Series (5" Keson Deep Well Submersible Pumps)

Technical Specifications

5 " monoblock Keson well pumps can be used in collecting tanks, reservoirs, 6" and large-scale wells, ponds or water channels. It is suitable for use in the pressurized water supply for domestic systems, small-scale agricultural applications, irrigation of gardens through sprinklers. These pumps which are indeed quiet, eliminate all the suction problems that may occur in wells and tanks. The hydraulic part of the monoblock multi-stage Keson well pump is mounted under discharged fluid and cooling motor. thermoplastic impeller and diffusers are highly resistant to abrasion. Pump shaft, bolts and screws are stainless steel. Pump body is made of AISI 304 stainless steel material. Double mechanical seal system consists of silicone carbide at pump side and and ceramic carbone at motor side, and cooled by the discharged fluid. The stator is combined with a coating comprising AISI 304 stainless steel, weather-resistant cable and a capacitor. All pumps are supplied with 20-meter power cable as standard.,

Operating Range	: Maximum 0,9 m^3/h flow rate and discharge height up to 86 meters.
Fluid Characteristics	: Clean water containing 50 g/m^3 sand
Maximum Fluid Temperature	: +40 °C
Maximum immersion depth	: 20 meters
Insulation Class	: F
Motor Protection Class	: IP 68

S4 - CS4 Series (4" Deep Well Submersible Pumps)

Technical Specifications

Multi-stage centrifugal submersible pumps that meet various pressure and flow-rate requirements are suitable for 4"or large-scale wells. It can be used for water distribution and pressurization in residential and industrial applications, or for feeding purposes of cisterns, fire fighting systems, washing and irrigation systems.

Construction Features:
S4 – Suction and discharge orifices are AISI 304 micro-cast stainless steel and the check valve at the discharge orifice is made of steel.
CS4 – Suction orifice (filtered) and discharge orifice (with check valve) are techno-polymer. Cable protection is plastic.

Operating Range	: 0,24 - 24 m^3/h flow rate and discharge height up to 320 meters.
Fluid Characteristics	: Clean, solid particle-free and mineral oil-free, non-viscous, chemically neutral water
Maximum Fluid Temperature	: between 0 °C and +40 °C
Maximum Sand Amount	: 120 g/m^3
Insulation Class	: B
Motor Protection Class	: IP 58

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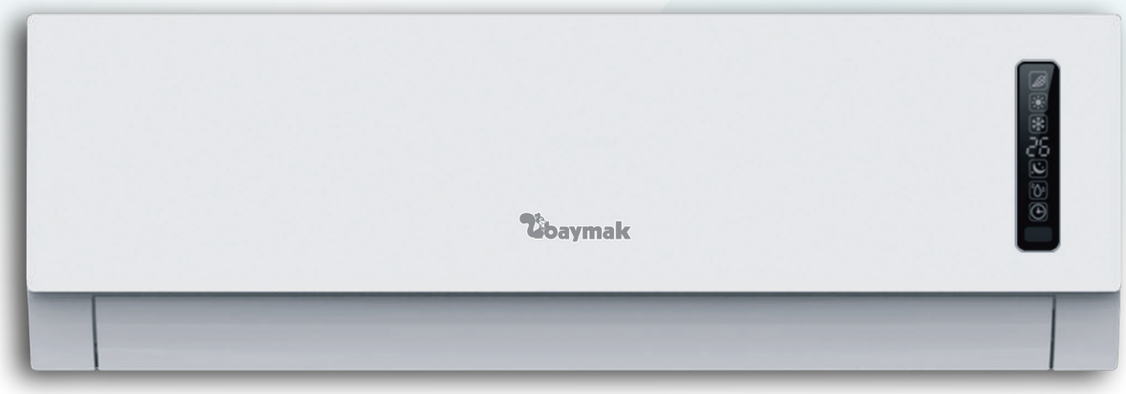
Air Conditioning Systems
The Ideal Solution For Every Space

Environment friendly wall-mounted and free-standing split air-conditioners with A-class energy and R410A gas in Baymak product range are comprised of an internal and an external unit. These air conditioners higher comfort features due to working at a very low noise level. They can be used smoothly in residential areas and offices free-standing split air-conditioners especially provide an ideal solution for crowded grand places such as the shops and meeting rooms. Baymak air-conditioners that provide homogeneous air distribution with high-speed and powerful fan systems aslo have inverter-models that provide electrical saving.

AIR CONDITIONING SYSTEMS

- ELEGANT INVERTER SERIES WALL-MOUNTED SPLIT AIRCONDITIONERS
- FS 48 SERIES FLOOR-STANDING SPLIT AIR CONDITIONERS
- SPLIT AIR / WATER HEAT PUMP SYSTEMS
- MONOBLOCK AIR / WATER HEAT PUMP SYSTEMS
- MONOBLOCK SPA AIR / WATER HEAT PUMP SYSTEMS
- WATER HEAT PUMP WITH STORAGE TANK (190 Liter)
- WATER HEAT PUMP WITH STORAGE TANK (300 Liter)



AIR CONDITIONING SYSTEMS

Wall-Mounted Split Air Conditioners

AIR CONDITIONING SYSTEMS

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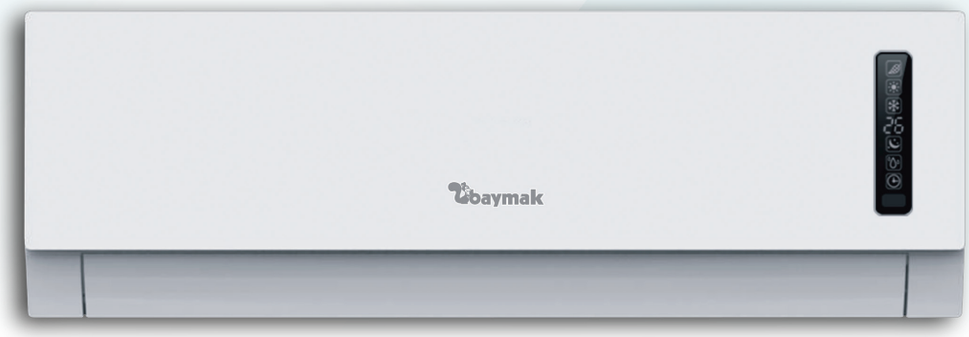
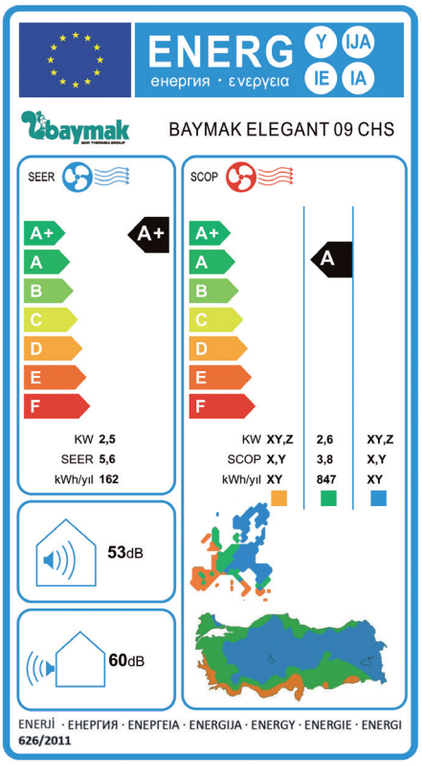
ELEGANT NEW GENERATION INVERTER

Series Wall-Mounted Split Air-Conditioners



- New Generation Inverter
- With High Efficiency R410A Gas
- According to New Energy Related Products (ERP) directives, 'A+'energy class in cooling and 'A' energy class in heating sector
- Refreshing air circulation with Ionizer Technology
- "I feel Technology": Access to the temperature which you want to feel where you are in the room
- Digital Screen
- Auto restart
- Temperature sensing LCD remote control
- With Intelligent Cleaning Function, deodarization and protection against possible duct in internal units of AC
- Silver Ions and Active Carbon Filtering system
- Timer function
- High Dehumidification Capacity
- Sleep Mode
- Defrost Feature
- Quiet Operation
- High Heating Performance with Heat Pump
- Corrossion-Resistant Golden Fins
- Fan control system
- Automatic Operation Mode
- Easy to clean Front Panel and Filter
- Triple Filtering System
- 3-minute safety protection

AC Technical Specifications



Technical Data Sheets

Models	Wall-Mounted Split AC			
	ELEGANT 09 CHS	ELEGANT 12 CHS	ELEGANT 18 CHS	ELEGANT 24 CHS
Energy Class (Cooling)	A+	A+	A+	A+
Energy Class (Heating)	A	A	A	A
Electrical Values (V/Phase/Hz)	220 / 1 / 50	220 / 1 / 50	220 / 1 / 50	220 / 1 / 50
Cooling Capacity (Btu/h)	8.530 (3.412~10.577)	11.942 (4.094~12.624)	17.772 (8.189~19.790)	23.884 (8.871~25.590)
Cooling Electricty Consumption (kW/h)	0,78 (0,24~1,18)	1.08 (0,10~1,40)	1,90 (0,35~2,10)	2,00 (0,32~3,20)
SEER (W/W)	5,6	5.6	5.6	5.65
Cooling Operation Current (A)	3,4 (0,8~5,3)	5,0 (0,6~6,1)	8,5 (2,0~9,5)	10,9(1,6~13,5)
Heating Capacity (Btu/h)	8.871 (3.412~10.918)	12.283 (3.753~12.624)	18.084 (8.189~19.790)	24.908 (8.018~27.637)
Heating Electricty Consumption (kW/h)	0,72 (0,33~0,85)	0,98 (0,20~1,30)	2.20 (0,50~2,25)	2.54 (0,46~3,70)
SCOP (W/W)	3,8	3,8	3,82	3,8
Heating Operation Current (A)	3,2 (1,4~5,4)	4,6 (1,2~5,8)	10,0 (2,5~11,5)	11,2 (2,4~16,5)
Air Flow (m^3/h)	530	550	920	1.200
Dehumidification Capacity (l/h)	1	1,3	1,6	2,2
Internal Unit Max. Sound Level (dB)	53	53	60	64
External Unit Max. Sound Level (dB)	60	61	65	67
Internal Unit Dimension (mm)	190x802x265	190x802x265	220x940x300	244x1185x322
External Unit Dimension (mm)	260x720x540	260x760x540	300x800x690	332x902x795
Internal Unit Weight (kg)	7	7	12	19
External Unit Weight (kg)	26	27	44	57
Copper Pipe Sizes (inch)	1/4 - 3/8	1/4 - 1/2	1/4 - 1/2	3/8 - 5/8

FS 48 Serisi Floor-Standing Split Air-Conditioners

- 48.000 btu cooling, 50.000 btu heating capacity
- Additional electric resistance for heating capacity of 9300 btu
- With R410A new generation gas
- LCD display
- 5 liters / hour dehumidification capacity
- Antibacterial filter

AC Technical Specifications

Additional Heater Resistance Feature:
Electric resistance is provided as standard in addition to the heat capacity with Heat Pump in our free-standing-type air conditioners. 24 FS free-standing air-conditioners running with 220 V single-phase electricity are also suitable for domestic use.

Quiet Operation with Rotary Compressor:
In Baymak air-conditioners, the world's well-known Japanese companies compressors are being used. Rotary type state of the art compressors have quiet operation features.

Antibacterial Filter:
A comfortable environment is provided by eliminating the cigarette smoke, particles in the ambient, unwanted odors by means of antibacterial fitler.

Dehumidifier Feature:
The level of humidity of the environment is reduced without changing the ambient temperature through a special micro –processor within the Baymak air conditioners. By reducing the ambient humidity, a healthy and qualified ambient air is obtained.

Digital Display:
Thanks to the new design digital displays of Baymak air-conditioners, you can be able to see the adjusted functions and temperature.

Technical Data Sheets

MODELS	FLOOR STANDING AC 48 FS SALON
Energy Class (Cooling)	C
Energy Class (Heating)	E
Electrical Ratings (V/Phase/Hz)	380 / 3 / 50
Cooling Capacity (Btu/h)	48.000
Cooling Electricity Consumption (kW/h)	4,98
EER (W/W)	2,81
Cooling Operating Current (A)	7,50
Heating Capacity (Btu/h)	50.000 + 9.300
Heating Power Consumption (kW/h)	5,23 + 3,00
COP (W/W)	2,81
Heating Operating Current (A)	7,90 + 4,50
Air Flow (m^3/h)	2.100
Dehumidification capacity (L / h)	5,0
Internal Unit Max. Sound Level (dB)	52
External Unit Max. Sound Level (dB)	62
Internal Unit Dimensions (mm)	360 x 1910 x 560
External Unit Dimensions (mm)	340 x 1255 x 945
Internal Unit Weight (kg)	58
External Unit Weight (kg)	105
Copper Tube Size (inch)	3/8 - 3/4

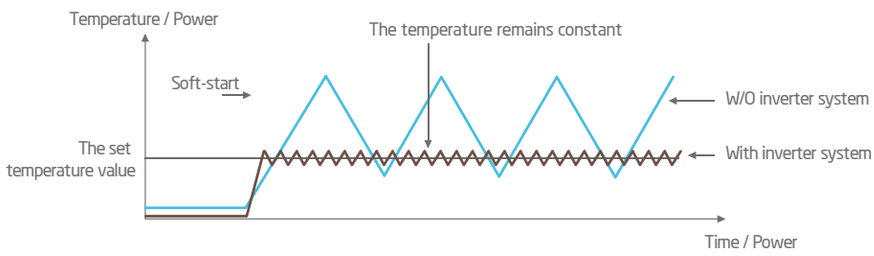
AIR CONDITIONING SYSTEMS

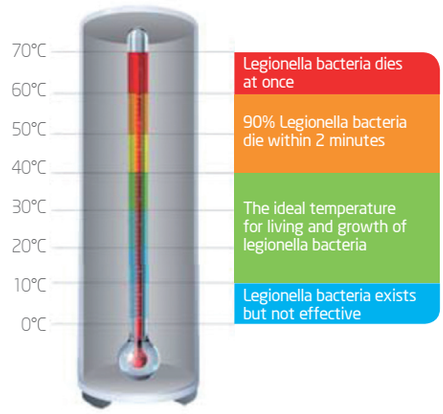
Heat Pump Systems

SPLIT AIR / WATER Heat Pump Systems

- DC Inverter Technology (Thanks to inverter technology, a more silent, economical and powerful heating pump)
- Environment friendly R410 gas
- COP values reaching up to 4,31
- Weekly automatic legionella program

Technical Specifications





AIR CONDITIONING SYSTEMS

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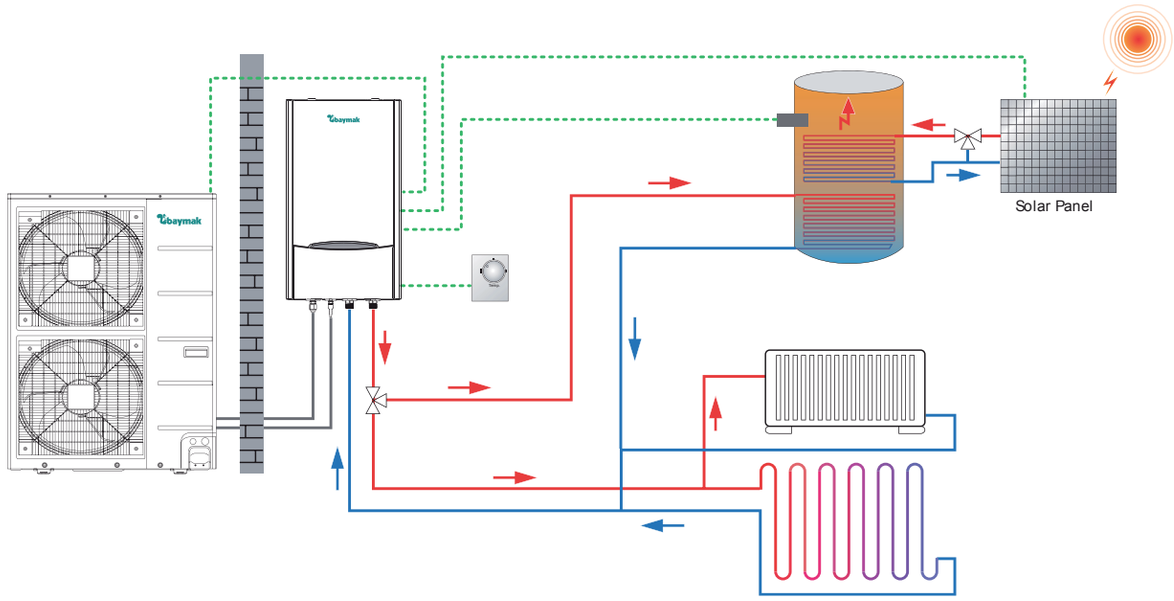
Application Sample



Technical Data Sheets

MODELS			HP-RS 60	HP-RS 80	HP-RS 100	HP-RS 120	HP-RS 140
Power Supply		Ph-V-Hz	1-220~240-50	1-220~240-50	1-220~240-50	3-380~415-50	3-380~415-50
Maximum Current		A	14	15	22	9	9
Heating	Capacity	kW	6	8	10	12	14
	COP		4,15	4,08	4,3	4,17	4,13
	Ambient Temperature	°C	(-15~43)	(-15~43)	(-15~43)	(-15~43)	(-15~43)
Cooling	Capacity	kW	5,5	6,3	8,5	8,8	8,8
	EER		2,45	2,23	2,45	2,22	2,28
	Ambient Temperature	°C	(15~43)	(15~43)	(15~43)	(15~43)	(15~43)
Dimensions	Net Dimensions (GxYxD)	mm	895X862X313	895X862X313	900X1327X348	900X1327X348	900X1327X348
	Net / Gross Weight	Kg	66 / 70	66 / 70	89 / 101	89 / 101	89 / 101
Sound Level		db(A)	58	58	58	58	58
Refrigerant	Type / Quantity	Kg	R410A / 2,4	R410A / 2,4	R410A / 2,7	R410A / 2,7	R410A / 2,7
	System Pressure	Mpa	4,4 / 2,6	4,4 / 2,6	4,4 / 2,6	4,4 / 2,6	4,4 / 2,6
Compressor	Type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
	Brand		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
	Capacity	W	7130	7130	9880	9880	9880
Fan Motor	Input Power	W	168/146	168/146	107x2	107x2	107x2
	Speed	r/min	877/749	877/749	800	800	800
Power Supply		Ph-V-Hz	1-220~240-50	1-220~240-50	1-220~240-50	3-380~415-50	3-380~415-50
Function	Type		Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling
	Heating	°C	15~55	15~55	15~55	15~55	15~55
	Cooling	°C	7~22	7~22	7~22	7~22	7~22
	Domestic Hot Water	°C	35~60	35~60	35~60	35~60	35~60
	Maximum Current	A	13,5	13,5	13,5	20	20
Sound Level		db(A)	32	32	32	32	32
Dimensions	Net Dimensions (GxYxD)	mm	500x900x375	500x900x375	500x900x375	500x900x375	500x900x375
	Net / Gross Weight	Kg	60 / 72	63 / 75	63 / 75	63 / 75	63 / 75
Extra Heater	Capacity	kW	1,5+1,5	1,5+1,5	1,5+1,5	4+4	4+4
	Quantity	pcs	2	2	2	2	2
Water Piping	Water Inlet Pipe	mm	DN32	DN32	DN32	DN32	DN32
	Water Outlet Pipe	mm	DN32	DN32	DN32	DN32	DN32

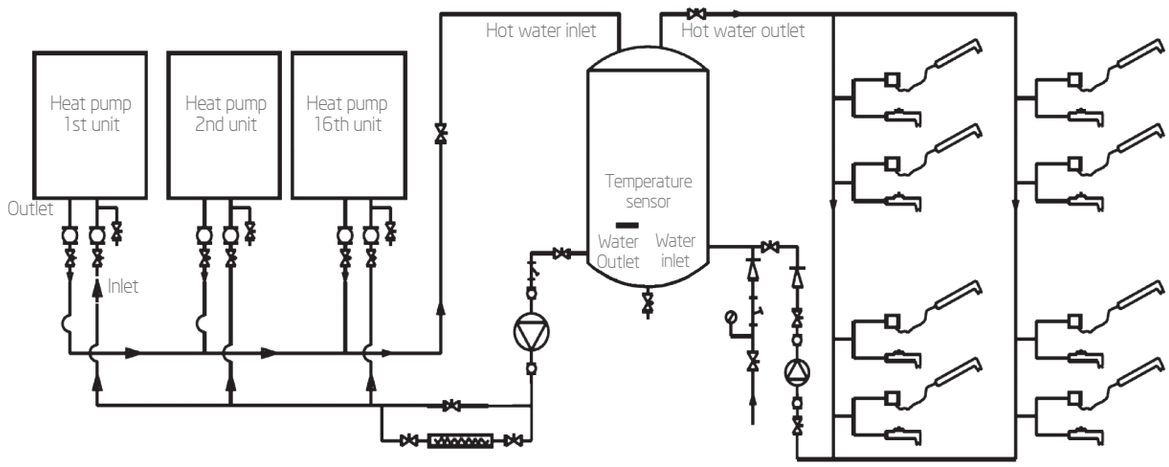
Test Conditions:
1. Heating : Ambient temperature: 7/6 °C (DB/WB), Water inlet temperature: 30 °C, Water outlet temperature: 35 °C.
2. Cooling : 35 °C/24 °C (DB/WB), Water inlet temperature: 12 °C, Water outlet temperature: 7 °C

MONOBLOCK AIR / WATER Heat Pump Systems

- COP values reaching up to 4.13
- Environment friendly R410 gas
- Defrost feature
- High efficiency compressor
- Safe operation with special gas and fluid balance design
- Ease of use
- LCD display
- Adjustment of outlet water temperature between 40 °C and 60 °C
- Memory function against power outages
- Displaying error codes on the screen, controlling the operation parameters
- Start time function

Wired Room Thermostat

Technical Specifications



16 pcs heat pumps can be connected to each other in the form of cascade.

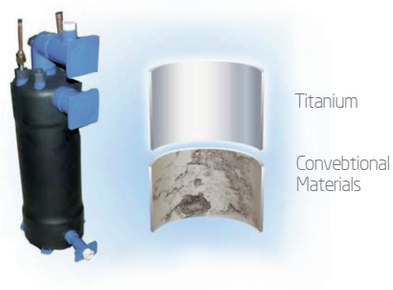
Technical Data Sheets

MODELS			HP-CM 110	HP-CM 200	HP-CM 430
Power Supply		Ph-V-Hz	1-220-50	3-380-50	3-380-50
Water Heating	Capacity	kW	11,2	20,4	43
	Input Power	kW	2,85	5,2	10,5
Input Power		kW	3,97	7,5	15,26
Compressor	Model		ZP36KSE-PFZ-522	ZP67KCE-TFD-522	ZP67KCE-TFD-420
	Type		SCROLL	SCROLL	SCROLL
	Brand		COPELAND	COPELAND	COPELAND
	Capacity	kW	8,8	16,2	16,2
	Input Power	kW	2,94	5,2	5,2
	Current Drawed At Normal Operation	A	13,6	9,1	9,1
	Current Drawed At Start-up	A	98	74	74
	Thermal Protection	°C	145	135	135
External Unit Fan Motor	Model		YDK140-6N	YDK220-6R	YDK550-6E
	Brand		Welling	Changzhouyongan	Changzhouyongan
	Input Power	W	230x1	360	865
	Speed	r/min	735 / 530	905 / 730	830 / 710
Sound Level		dB(A)	61	61	62
Dimensions	Net Dimensions (WxHxD)	mm	750x1100x750	750x1100x750	992x1750x893
	Net / Gross Weight	kg	121 / 129	145 / 152	290 / 297
Type of Refrigerant / Amount		Kg	R410a 1,5	R410a 2,8	R410a 5,7
Design Pressure		MPa	4,4 / 2,6	4,4 / 2,6	4,4 / 2,6
Ambient Temperature		°C	(-15~43)	(-15~43)	(-15~43)
Water Piping	Water Inlet Pipe	mm	DN25	DN25	DN25
	Water Outlet Pipe	mm	DN25	DN25	DN32
Hot Water Flowrate		m^3/h	0,25	0,52	1,0
Water Outlet Temperature		°C	(default) 56°C, 40°C~60°C	(default) 56°C, 40°C~60°C	(default) 56°C, 40°C~60°C

Test Conditions:
Outdoor temperature: 20/15 °C (DB/WB), Input Water Temperature: 15 °C, Output water temperature: 55 °C.

MONOBLOCK SPA AIR / WATER Heat Pump Systems

- Titanium heat exchanger
- COP values of up to 5.49
- LCD Display
- 15 m wired control option
- Automatic defrost feature
- Capable of making both heating and cooling



Technical Data Sheets

MODELS			HP-PM 60	HP-PM 80	HP-PM 120	HP-PM 140
Power Supply		Ph-V-Hz	1-220-50	1-220-50	1-220-50	1-220-50
At Heating Mode	Output Water Temperature Value	°C	Default 28°C, 20°C ~ 35°C			
At Cooling Mode	Output Water Temperature Value	°C	Default 28°C, 10°C ~ 30°C			
Maximum Current		A	6,3	8,0	13,7	16
Heating	Capacity	kW	6	8	12	14
	Input Power	kW	1,15	1,52	2,4	2,55
	Outdoor Temperature	°C	(-7~38)	(-7~38)	(-7~38)	(-7~38)
	COP	kW/kW	5,22	5,27	5	5,49
Cooling	Capacity	kW	4	5,8	8,4	10,4
	Input Power	kW	1,3	1,5	2,4	2,9
	Outdoor Temperature	°C	(15~43)	(15~43)	(15~43)	(15~43)
	EER	kW/kW	3,2	3,9	3,5	3,6
Dimensions	Net Dimensions (WxHxD)	mm	1015x705x385	1015x705x385	1050x855x315	1050x855x315
	Net / Gross Weight	kg	64 / 73	66 / 75	75 / 85	75 / 85
Sound Level		dB(A)	58	58	58	58
Type of Refrigerant / Amount		Kg	R410a 1,5	R410a 1,25	R410a 1,6	R410a 1,85
Water Side	Heat Exchanger Material		Titanium Heat Exchanger			
	Water Inlet Pipe	mm	DN50	DN50	DN50	DN50
	Water Inlet Pipe	mm	DN50	DN50	DN50	DN50

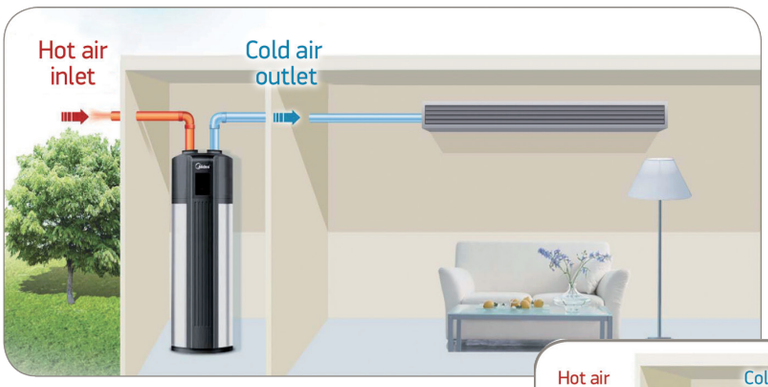
Test Conditions:
Water Heating : Outdoor Temperature: 24/19 °C (DB / WB), Input Water Temperature: 27 °C, Output Water Temperature: 29 °C.
Water Cooling : Outdoor Temperature: 35/24 °C (DB / WB), Input Water Temperature: 27 °C

WATER HEAT PUMP WITH STORAGE TANK (190 Liter)

- Environment Friendly R134 A gas
- Adjustable outlet water temperature (38°C - 70°C)
- Automatic mode and Holiday mode options
- Weekly Automatic Disinfection Function
- Unique defrost function with 4-way valve
- LCD display
- Displaying error codes on the screen and controlling the operation parameters
- Ease of use
- Duct length up to 5 meter with 15 Pa air outlet pressure

Flexible Duct Setting

Living Room



Dinner Room

Tank Room

Technical Data Sheet

MODEL			HP-BM 190 LT	
Heating Supply			Heat Pump	With Extra Heater
Operation Environment Temperature		°C	-7-43	-20-43
Water Outlet Temperature		°C	38 - 70	
Power Supply		Ph-V-Hz	220-240 ~ -1 -50	
Tank Dimension		l	190	
Water Heating	Capacity	kW	1,45	3
	COP	kW/kW	3,6	1
	Max. Current	A	17.0	
Ambient Temperature		°C	-20~43	
Dimensions	Net Dimensions (Dia. X H.)	mm	Ø 560x1,680	
	Net /Brut Weight	kg	94/110	
Sound Level		dB(A)	41	
Cooling Fluid Type/Quantity		kg	R134a/0,9	
Cooling Fluid Design Pressure-		MPa	3,0/1,2	
Tank Design Pressure		MPa	0,15~1,2	
Compressor	Model		Rotary	
	Brand		GMCC	
	Capacity	kW	1,390/1,405	
	Input Power	kW	0,515/0,540	
Fan Motor	Input Power	W	28/26/26	
	Speed	r/min	900/815/680	
Water Piping	Water inlet pipe	mm	DN20	
	Water outlet pipe	mm	DN20	
	Drainage Pipe	mm	DN20	
	Safety Valve Connection	mm	DN20	
	Maximum working pressure	MPa	1,0	
Extra Heater			3	
Hot Water Flow		m^3/h	0,043	0,086
Number of User			3-4	

Test Conditions:
Outdoor air temperature 15°C / 12°C (DB / WB), inlet water temperature 15°C, outlet water temperature 45°C

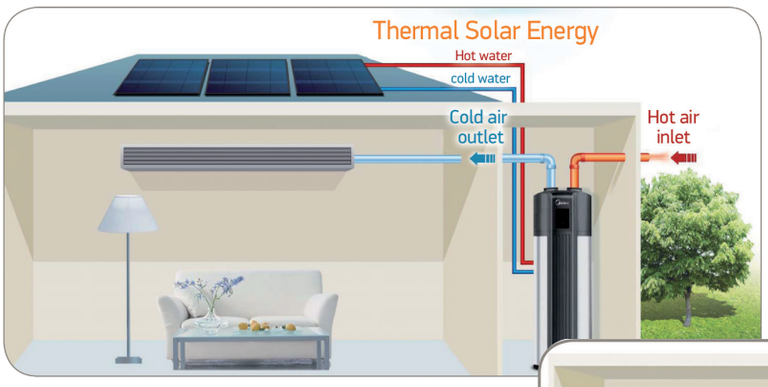
AIR CONDITIONING SYSTEMS

AIR / WATER HEAT PUMP WITH STORAGE TANK (300 Liter)

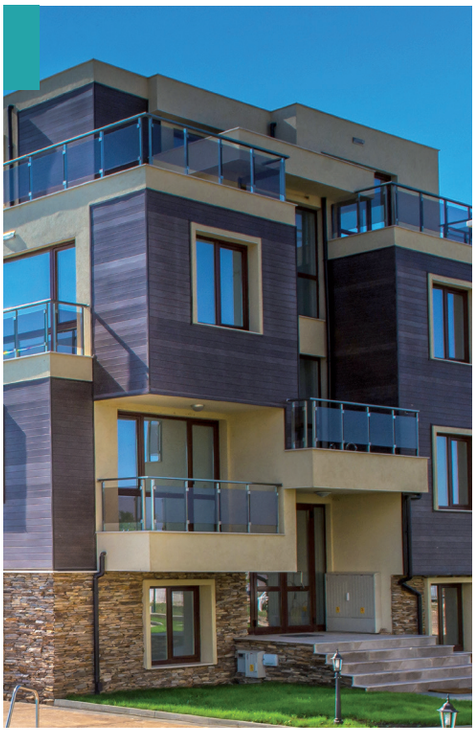
- Environment Friendly R134 A gas
- Adjustable outlet water temperature (38°C - 60°C)
- Automatic mode and Holiday mode options
- Weekly Automatic Disinfection Function
- Unique defrost function with 4-way valve
- LCD display
- Displaying error codes on the screen and controlling the operation parameters
- Ease of use
- Duct length up to 10 meter with 25 Pa air outlet pressure

Flexible Duct Setting

Living Room



Dinner Room



Tank Room

Teknik Veri Tablosu

MODEL			HP-BM 300 LT	
Heating Supply			Heat Pump	With Extra Heater
Operation Environment Temperature		°C	-7-43	-20-43
Water Outlet Temperature		°C	38 - 60	
Power Supply		Ph-V-Hz	220-240 ~ -1 -50	
Tank Dimension		l	300	
Water Heating	Capacity	kW	3	3
	COP	kW/kW	3,6	1
	Max. Current	A	18,7	
Ambient Temperature		°C	-20~43	
Dimensions	Net Dimensions (Dia. X H.)	mm	Ø 650x1,920	
	Net /Brut Weight	kg	123/144	
Sound Level		dB(A)	48	
Cooling Fluid Type/Quantity		kg	R134a/1,2	
Cooling Fluid Design Pressure-		MPa	3,0/1,2	
Tank Design Pressure		MPa	0,15~1,2	
Compressor	Model		Rotary	
	Brand		Mitsubishi	
	Capacity	kW	2,785/3,355	
	Input Power	kW	0,895/1,095	
Fan Motor	Input Power	W	68/56/50	
	Speed	r/min	620/530/465	
Water Piping	Water inlet pipe	mm	DN20	
	Water outlet pipe	mm	DN20	
	Drainage Pipe	mm	DN20	
	Safety Valve Connection	mm	DN20	
	Maximum working pressure	MPa	1,0	
Extra Heater			3	
Hot Water Flow		m^3/h	0,086	
Number of User			5-6	

Test Conditions:
Outdoor air temperature 15°C / 12°C (DB / WB), inlet water temperature 15°C, outlet water temperature 45°C


ABB

Auxiliary Equipment
Practical and Fast Solutions

As Baymak, "customer satisfaction" is always our priority. Therefore, our customers can obtain any kind of product that they want without the need for any other company within the scope of the Project from Baymak. Another advantage of this is to deal with a single company after the sale and finding practical and fast solutions to the problems. You will find all kinds of equipment you are looking for at Baymak and by providing well-supported projects you will receive a service free of problems.

AUXILIARY EQUIPMENT

- PANEL RADIATORS
- TOWEL RADIATORS
- RADIATOR VALVES
- THERMOSTATIC RADIATOR VALVES
- BG-1 SERIES SINGLE STAGE GAS BURNER
- BG-2 SERIES DUAL STAGE GAS BURNER
- BG-3 SERIES MODULATING GAS BURNERS
- CLOSED EXPANSION TANKS
- OPEN EXPANSION TANKS

AUXILIARY EQUIPMENT

Panel Radiators

AUXILIARY EQUIPMENT

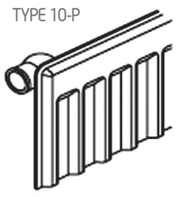
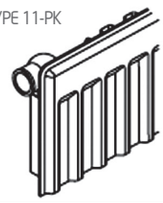
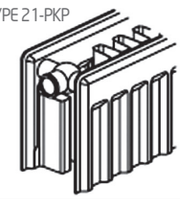
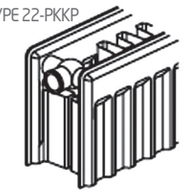
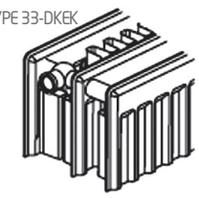
baymak

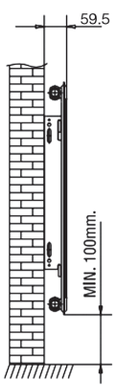
PANEL RADIATORS

Technical Specifications

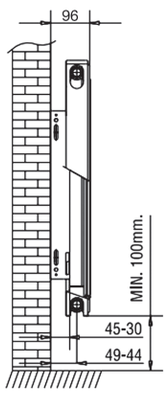
Baymak Panel Radiators are produced in 5 different types (10-P, 11-PK, 21-PKP, 22-PKKP, 33-DKEK), 6 different heights (300-400-500-600-700-900 mm) and 27 different lengths ranging from 400 mm to 3000 mm. Thanks to the resistance to high pressure and volume of water due to the 33 mm optimum pitch, economy and efficiency are obtained in the operating costs. It has a feature of installing into the place of cast iron and steel sectional radiators with the patented fittings. Suitable for floor-fed installations with trimmed types. If required, can be mounted to the floor by means of a special accessory. Resistant to shocks during shipping and installation with the special packaging. High-performance, reasonable price and fast delivery are our main principles.

Types

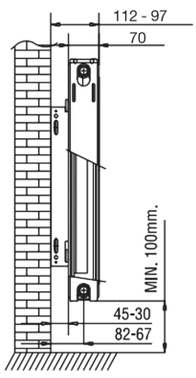
TYPE	TYPE 10-P 	TYPE 11-PK 	TYPE 21-PKP 	TYPE 22-PKKP 	TYPE 33-DKEK 
Width	47,5 mm	47,5 mm	70 mm	105 mm	160 mm
Height	300, 400, 500, 600, 700, 900 mm	300, 400, 500, 600, 700, 900 mm	300, 400, 500, 600, 700, 900 mm	300, 400, 500, 600, 700, 900 mm	300, 400, 500, 600, 700, 900 mm
Length	400 mm - 3000 mm	400 mm - 3000 mm	400 mm - 3000 mm	400 mm - 3000 mm	400 mm - 3000 mm
Clearance	100 mm - 400 mm - 1600 mm - 200 mm - 1600 mm - 3000 mm	100 mm - 400 mm - 1600 mm - 200 mm - 1600 mm - 3000 mm	100 mm - 400 mm - 1600 mm - 200 mm - 1600 mm - 3000 mm	100 mm - 400 mm - 1600 mm - 200 mm - 1600 mm - 3000 mm	100 mm - 400 mm - 1600 mm - 200 mm - 1600 mm - 3000 mm



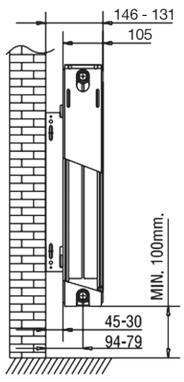
TYPE 10-P



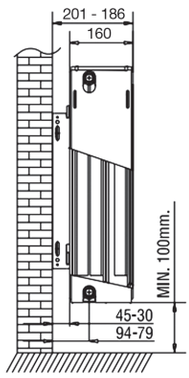
TYPE 11-PK



TYPE 21-PKP

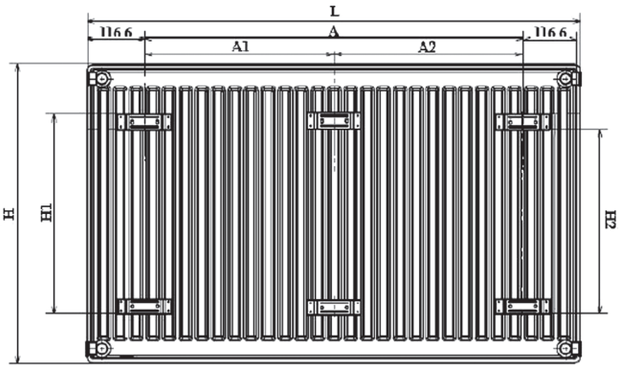


TYPE 22-PKKP



TYPE 33-DKEK

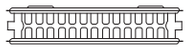
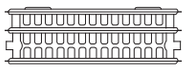
Suspension Plate Dimensions



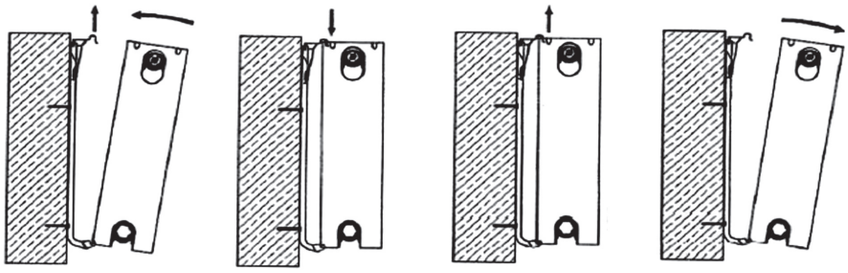
L	A	A1	A2
400	166,8		
500	266,8		
600	366,8		
700	466,8		
800	566,8		
900	666,8		
1000	766,8		
1100	866,8		
1200	966,8		
1300	1066,8		
1400	1166,8		
1500	1266,8		
1600	1366,8		
1800		783,4	783,4
2000		883,4	883,4
2200		983,4	983,4
2400		1083,4	1083,4
2600		1183,4	1183,4
2800		1283,4	1283,4
3000		1383,4	1383,4

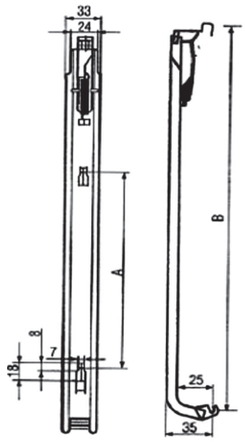
Radiator Height (mm)	A (mm)	A1 (mm)
300	160	135
400	260	235
500	360	335
600	460	435
700	560	535
900	760	735

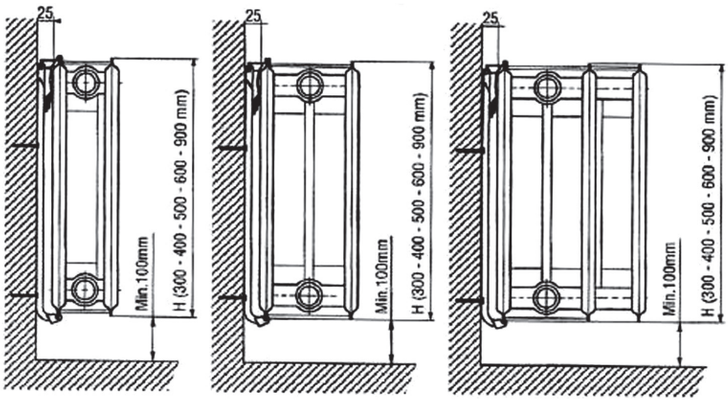
- There are three pairs of suspension brackets for radiators with more than 1600 mm of lenght among all types of radiators.

RADIATOR TYPE	Radiator Height (mm)	Distance Between Axis (mm)	Width (mm)	Weight (kg/m)	Water Volume (l/m)
10 - P 	300	245	45	6.40	1.50
	400	345	45	8.60	2.00
	500	445	45	10.30	2.60
	600	545	45	12.40	3.00
	700	645	45	14.50	3.40
	900	845	45	18.10	4.50
11 - PK 	300	245	45	8.00	1.50
	400	345	45	10.90	2.00
	500	445	45	13.20	2.50
	600	545	45	16.20	3.00
	700	645	45	18.90	3.40
	900	845	45	24.20	4.50
21 - PKP 	300	245	76	13.90	3.00
	400	345	76	18.80	4.00
	500	445	76	21.00	5.00
	600	545	76	27.70	6.00
	700	645	76	32.30	6.80
	900	845	76	41.70	8.00
22 - PKKP 	300	245	100	35.60	3.00
	400	345	100	21.40	4.00
	500	445	100	27.60	5.00
	600	545	100	31.80	6.10
	700	645	100	39.40	6.80
	900	845	100	47.65	9.00
33 - DKEK 	300	245	162	23.30	4.50
	400	345	162	32.00	6.00
	500	445	162	39.30	7.50
	600	545	162	47.30	9.00
	700	645	162	55.20	10.00
	900	845	162	71.50	15.20

L-Console Dimensions

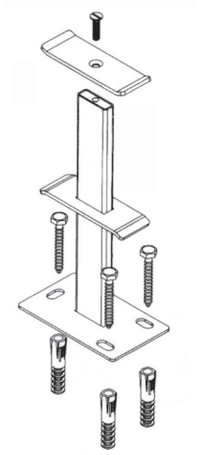


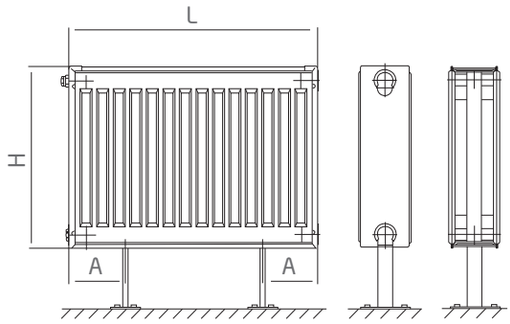




Radiator Height (mm)	A (mm)	B (mm)
300	90	298
400	190	398
500	290	498
600	390	598
900	690	898

Floor Mounting Accessories



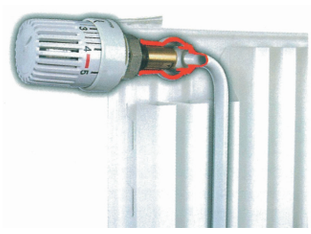


L (mm)	H (mm)	A (mm)
At 100 mm intervals from 400 mm to 3000 mm	300 - 400 - 500 - 600 - 900	116.6

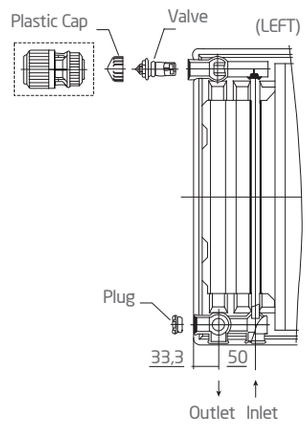
Valve Trimmed Panel Radiators

Baymak Panel Radiators with plugged and valve trimming types are suitable for floor-fed, thermostatic valve controlled installations.

The status of being plugged or valved, hot and cold water inlet-outlet ports direction (left-right) must certainly be specified for the orders.



Classical assembly can be made by means of special trimming with 4 inputs and outputs. For types of valve trimming, the valve is delivered by mounting into radiator and attaching a plastic cover. Thermostatic valve adjustment cap is provided from the market and installed into place of the plastic cover. In this way, automatic temperature control of radiators are provided.



TOWEL RADIATORS

- Creates aesthetics, modern, stylish and perfect solutions for warming and drying towels
- Electrostatic epoxy polyester powder coated / chrome-plated towel radiators are compliant with the accessories in your bathroom

AUXILIARY EQUIPMENT

Flat / elliptical white and chrome-plated towel radiators (Diameter: 22 mm)

WIDTH (mm)	HEIGHT (mm)	BETWEEN AXIS (mm)	NUMBER OF TUBES	WATER VOLUME (l)	WEIGHT (kg)	THERMAL POWER (watt)	THERMAL POWER (kcal/h)
400	700	355	12	2,50	4,33	250	215
	800	355	15	2,98	5,17	301	259
	1000	355	18	3,65	6,30	367	315
	1100	355	20	4,03	6,96	406	349
	1200	355	22	4,45	7,61	444	382
	1400	355	24	4,98	8,57	498	428
	1500	355	26	5,37	9,22	536	461
	1600	355	28	5,75	9,88	575	495
	1800	355	30	6,32	10,83	629	540
500	700	455	12	2,87	4,98	296	255
	800	455	15	3,45	5,98	359	309
	1000	455	18	4,21	7,28	436	375
	1100	455	20	4,66	8,04	483	415
	1200	455	22	5,11	8,80	530	455
	1400	455	24	5,74	9,86	590	508
	1500	455	26	6,19	10,63	637	548
	1600	455	28	6,63	11,39	684	588
	1800	455	30	7,27	12,45	745	640
600	700	555	12	3,25	5,63	343	295
	800	555	15	3,92	6,79	417	359
	1000	555	18	4,78	8,25	506	435
	1100	555	20	5,29	9,12	560	482
	1200	555	22	5,80	9,99	615	528
	1400	555	24	6,49	11,16	683	587
	1500	555	26	7,00	12,03	738	634
	1600	555	28	7,51	12,91	792	681
	1800	555	30	8,21	14,08	861	740
700	700	655	12	3,62	6,28	389	335
	800	655	15	4,39	7,60	475	409
	1000	655	18	5,34	9,22	575	495
	1100	655	20	5,92	10,20	638	548
	1200	655	22	6,49	11,18	700	602
	1400	655	24	7,25	12,46	776	667
	1500	655	26	7,82	13,44	838	721
	1600	655	28	8,39	14,42	900	774
	1800	655	30	9,15	15,70	977	840

RADIATOR VALVES

ANGULAR RADIATOR VALVES

- G ½" connection
- Angular model
- Relevant standard: TS 579
- Working pressure: 10 bar
- Maximum operating temperature: 120 °C

FLAT RADIATOR VALVE

- G ½" connection
- Flat model
- Relevant standard: TS 579
- Working pressure: 10 bar
- Maximum operating temperature: 120 °C

They are used to adjust the flow rate of fluid entering into the heater by fitting into inlet and outlet of the heaters in heating systems.

ANGULAR RADIATOR VALVE PEX

- G ½" connection
- Angular model
- Relevant standard: TS 579
- Working pressure: 10 bar
- Maximum operating temperature: 120 °C

RADIATOR RETURN VALVE

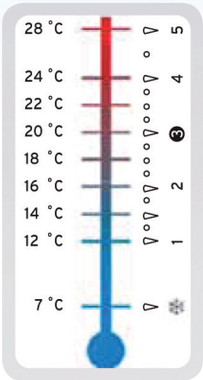
- G ½" connection
- Angular/Flat model
- Relevant standard: TS 579
- Working pressure: 10 bar
- Maximum operating temperature: 120 °C

Radiator lockshield valves are used to adjust the flow rate of return water of the heaters in heating systems.

THERMOSTATIC RADIATOR VALVES

Advantages of Baymak Thermostatic Radiator Valves

- Provides saving in the amount of fuel consumption of natural gas LPG, coal, fuel oil that we use for heating.
- Thermostatic radiator valves mechanism provides a more aesthetic balance and image in comparison with conventional valves.
- Thermostatic radiator valves are designed as easy-to-use and maintenance-free.



Temperature values correspond to the figures remain on Baymak Thermostatic Valve are shown in the next table.

Product Description

Baymak Thermostatic Radiator Valves keep radiators under control. Allows to set different temperatures for each room. Mutes the amount of hot water entering the radiator, as the room reaches up to the desired temperature. In this way, the room temperature does not exceed our desired temperatue which prevents overheating.

Since we consume less energy due to minimum heating, it provides benefits both for our environment in terms of air-pollution and to our budget. For efficient working, the top and front side of Baymak Thermostatic Radiator Valves should not be closed by curtains or furniture so that air flow should let free.

The air ducts over the Baymak Thermostatic Radiator Valves feel the warm air and work according to the principle of expansion of heat-sensitive sensor.

Baymak Thermostatic Radiator Valves Features

- Compliant to Energy Efficiency Law No. 5627. The factory settings are adjusted between 15 and 28 °C. Do not require any extra setting.
- TS-EN 215 certified.
- Capable of performing flowrate and on – off adjustment by means of protection cap.
- The body and sealing compound group are entirely made of brass.
- Suitable for installation water temperature of maximum 120 °C.
- Provides an aesthetic harmony and appearance for areas of use with its stylish design.

AUXILIARY EQUIPMENT

Gas Burners

AUXILIARY EQUIPMENT

baymak

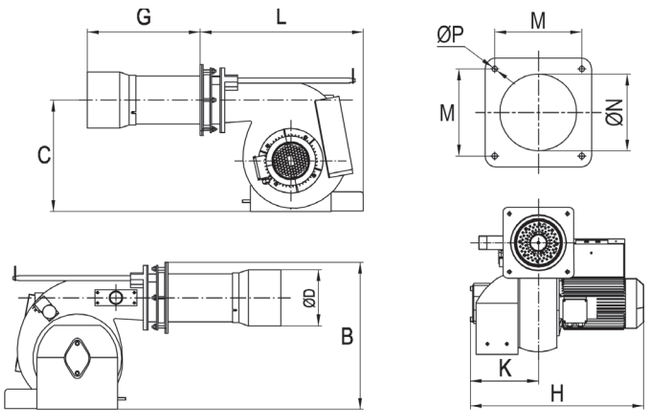
BG 1 Series Single Stage Gas Burner

Product Description

There is constant gas and air flowrates in BG 1-series single-stage burners which means the activation and deactivation of the burner always constant in the same capacity. Air flap is set to a single point and requires no further change.

Advanced German technology, A-class gas path equipment are used in BG-Series gas burners.

Burner Dimensions



Technical Data Sheets

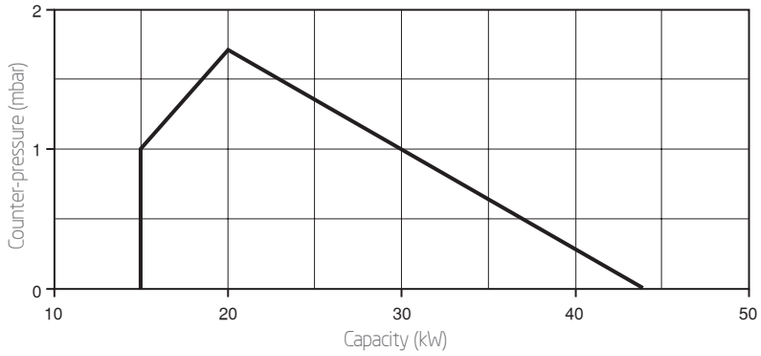
Burner Type	CAPACITY				GAS CONSUMPTION		LPG CONSUMPTION		GAS PRESSURE mbar	MOTOR POWER kW	VOLTAGE at 50 V	WEIGHT Kg	GAS VALVE
	Min. Kcal/h	Max. Kcal/h	Min. kW	Max. kW	Min. Nm^3/h	Max. Nm^3/h	Min. Nm^3/h	Max. Nm^3/h					
BG 1-15/44 M Gas Burner 21 mbar	12.900	37.840	15	44	1.6	4.6	0.6	1.7	21	0.11	220	11	GB-LE 057
BG 1-20/82 M Gas Burner 21 mbar	17.200	70.520	20	82	2.1	8.5	0.8	3.1	21	0.11	220	11	GB-LE 057
BG 1-30/110 M Gas Burner 21 mbar	25.800	94.600	30	110	3.1	11.5	1.1	4.2	21	0.11	220	11	GB-LE 057
BG 1-40/135 M Gas Burner 21 mbar	34.400	116.100	40	135	4.2	14.1	1.5	5.2	21	0.15	220	18	GB-LE 057
BG 1-50/185 M Gas Burner 21 mbar	43.000	159.100	50	185	5.2	19.3	1.9	7.1	21	0.15	220	18	MB-DLE 407
BG 1-65/210 M Gas Burner 21 mbar	55.900	180.600	65	210	6.8	21.9	2.5	8.0	21	0.15	220	18	MB-DLE 410
BG 1-105/320 M Gas Burner 21 mbar	90.300	275.200	105	320	10.9	33.4	4.0	12.2	21	0.15	220	18	MB-DLE 410

Burner Technical Measures

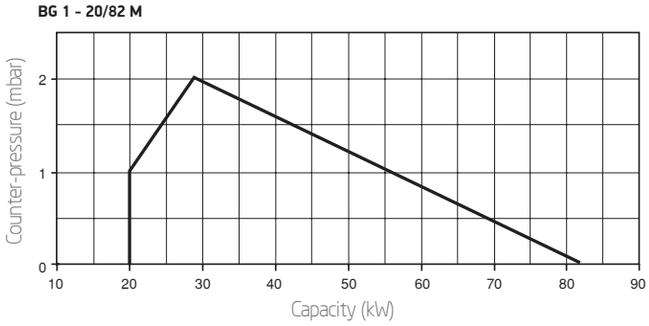
Burner Type	L mm	Gmin mm	Gmax mm	H mm	K mm	B mm	C mm	ØN mm	ØP mm	M mm	ØD mm
BG 1-15/44 M	260	50	220	300	170	260	190	85	9	110	84
BG 1-20/82 M	260	50	220	300	170	260	190	85	9	110	84
BG 1-30/110 M	260	50	220	300	170	260	190	85	9	110	84
BG 1-40/135 M	380	106	200	340	165	320	230	120	10	142	134
BG 1-50/185 M	380	106	200	340	165	320	230	120	10	142	134
BG 1-65/210 M	380	106	200	340	165	320	230	120	10	142	134
BG 1-105/320 M	380	106	200	340	165	320	230	120	10	142	134

Capacity - Counter-Pressure Curves

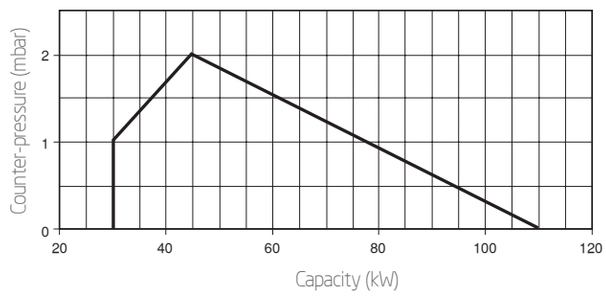
BG 1 - 15/44 M



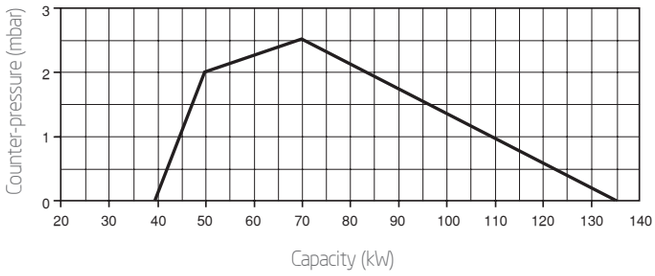
BG 1 - 20/82 M



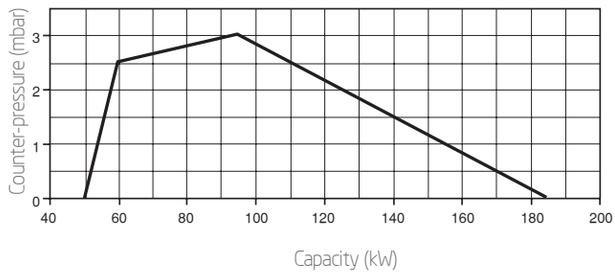
BG 1 - 30/110 M



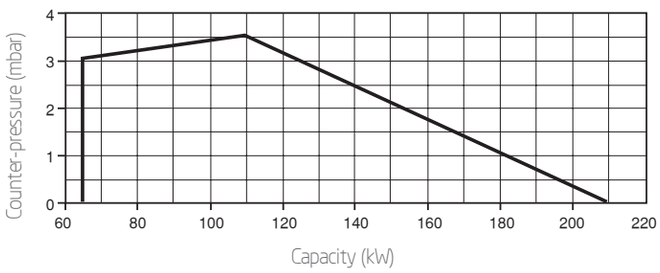
BG 1 - 40/135 M



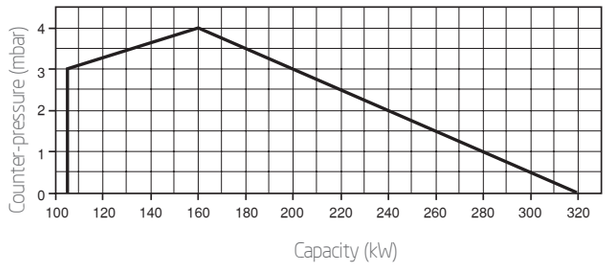
BG 1 - 50/185 M



BG 1 - 65/210 M



BG 1 - 105/320 M



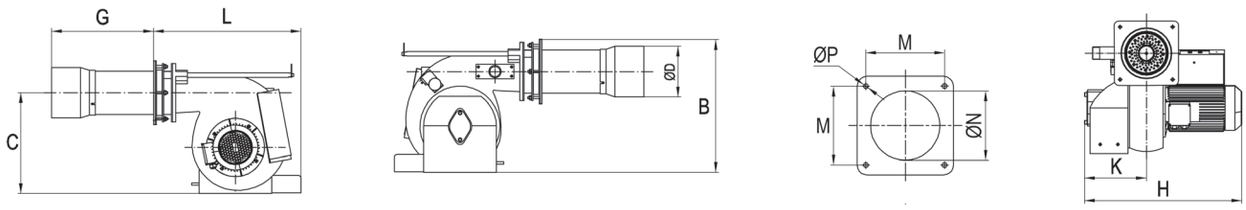
BG 2 Series Dual-Stage Gas Burners

Product Description

BG 2 Series dual-stage burners, the appropriate fuel-air mixture is achieved by controlling the air damper with a servo motor. As a result of this, a stable and highly efficient combustion is obtained.

The fully opened front flap for maximum benefit at pre-sweeping stage, provides fuel saving by keeping the heat to remain in the boiler through fully closing up as the burner stops.

Burner Dimensions



Technical Data Sheets

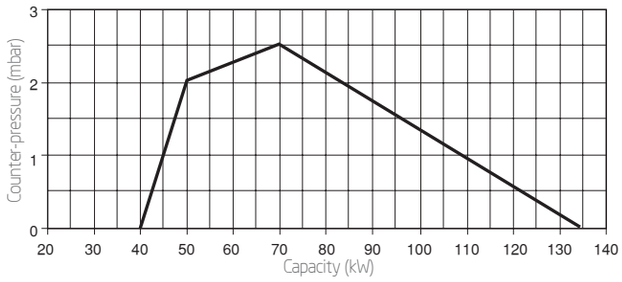
Burner Type	CAPACITY				GAS CONSUMPTION		LPG CONSUMPTION		GAS PRESSURE mbar	MOTOR POWER kW	VOLTAGE at 50 V	WEIGHT Kg	GAS VALVE
	Min. Kcal/h	Max. Kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. Nm³/h	Max. Nm³/h					
BG 2-40/135 M Gas Burner 21 mbar	34.400	116.100	40	135	4.2	14.1	1.5	5.2	21	0.15	220	18	MB-ZRDLE 407
BG 2-50/185 M Gas Burner 21 mbar	43.000	159.100	50	185	5.2	19.3	1.9	7.1	21	0.15	220	18	MB-ZRDLE 407
BG 2-65/210 M Gas Burner 21 mbar	55.900	180.600	65	210	6.8	21.9	2.5	8.0	21	0.15	220	18	MB-ZRDLE 410
BG 2-110/340 M Gas Burner 21 mbar	94.600	292.400	110	340	11.5	35.4	4.2	13.0	21	0.15	220	18	MB-ZRDLE 412
BG 2-135/445 M Gas Burner 21 mbar	116.100	382.700	135	445	14.1	46.4	5.2	17.0	21	0.37	220	35	MB-ZRDLE 412
BG 2-175/545 T Gas Burner 21 mbar	150.500	468.700	175	545	18.2	56.8	6.7	20.8	21	0.75	380	35	MB-ZRDLE 415
BG 2-190/645 T Gas Burner 21 mbar	163.400	554.700	190	645	19.8	67.2	7.3	24.7	21	0.75	380	35	MB-ZRDLE 415
BG 2-210/745 T Gas Burner 21 mbar	180.600	640.700	210	745	21.9	77.7	8.0	28.5	21	0.75	380	40	MB-ZRDLE 415
BG 2-230/875 T Gaz Brülörü 21 mbar	197.800	752.500	230	875	24.0	91.2	8.8	33.4	21	0.75	380	40	MB-ZRDLE 420
BG 2-250/1025 T Gas Burner 21 mbar	215.000	881.500	250	1.025	26.1	106.8	9.6	39.2	21	1.10	380	40	MB-ZRDLE 420
BG 2-275/1225 T Gas Burner 21 mbar	236.500	1.053.500	275	1.225	28.7	127.7	10.5	46.8	21	1.50	380	40	VGD 20.5011
BG 2-110/340 M Gas Burner 300 mbar	94.600	292.400	110	340	11.5	35.4	4.2	13.0	300	0.15	220	18	MB-ZRDLE 407
BG 2-135/445 M Gas Burner 300 mbar	116.100	382.700	135	445	14.1	46.4	5.2	17.0	300	0.37	220	35	MB-ZRDLE 410
BG 2-175/545 T Gas Burner 300 mbar	150.500	468.700	175	545	18.2	56.8	6.7	20.8	300	0.75	380	35	MB-ZRDLE 410
BG 2-190/645 T Gas Burner 300 mbar	163.400	554.700	190	645	19.8	67.2	7.3	24.7	300	0.75	380	35	MB-ZRDLE 412
BG 2-210/745 T Gas Burner 300 mbar	180.600	640.700	210	745	21.9	77.7	8.0	28.5	300	0.75	380	40	MB-ZRDLE 412
BG 2-230/875 T Gas Burner 300 mbar	197.800	752.500	230	875	24.0	91.2	8.8	33.4	300	0.75	380	40	MB-ZRDLE 412
BG 2-250/1025 T Gas Burner 300 mbar	215.000	881.500	250	1.025	26.1	106.8	9.6	39.2	300	1.10	380	40	MB-ZRDLE 412
BG 2-275/1225 T Gas Burner 300 mbar	236.500	1.053.500	275	1.225	28.7	127.7	10.5	46.8	300	1.50	380	40	MB-ZRDLE 412

Burner Technical Measures

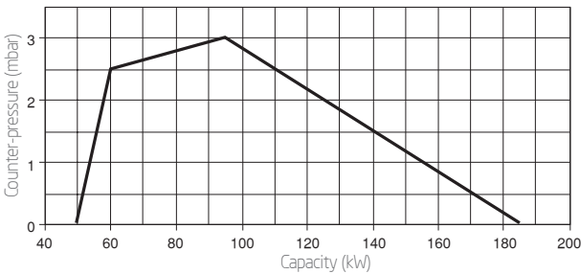
Burner Type	L mm	Gmin mm	Gmax mm	H mm	K mm	B mm	C mm	ØN mm	ØP mm	M mm	ØD mm
BG2-40/135 M	380	200	200	340	165	320	230	120	10	142	134
BG2-50/185 M	380	200	200	340	165	320	230	120	10	142	134
BG2-65/210 M	380	200	200	340	165	320	230	120	10	142	134
BG2-110/340 M	380	200	200	340	165	320	230	120	10	142	134
BG2-135/445 M	535	320	320	520	220	392	305	133	10	142	153
BG2-175/545 T	535	320	320	520	220	392	305	133	10	142	153
BG2-190/645 T	535	320	320	520	220	392	305	133	10	142	153
BG2-210/745 T	535	350	350	520	215	455	345	149	11	180	174
BG2-230/875 T	535	350	350	520	215	455	345	149	11	180	174
BG2-250/1025 T	535	350	350	520	215	455	345	149	11	180	174
BG2-275/1225 T	535	350	350	520	215	455	345	149	11	180	174

Capacity - Counter-Pressure Curves

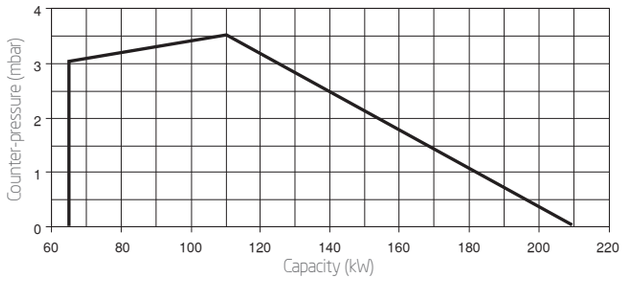
BG2 - 40/135 M



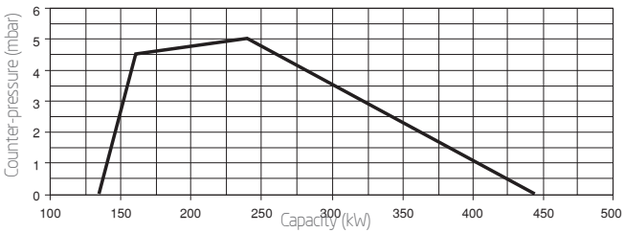
BG 2 - 50/185 M



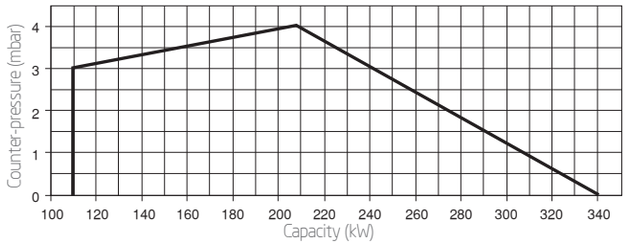
BG 2 - 65/210 M



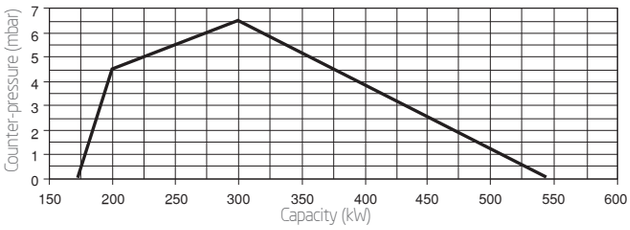
BG 2 - 135/445 M



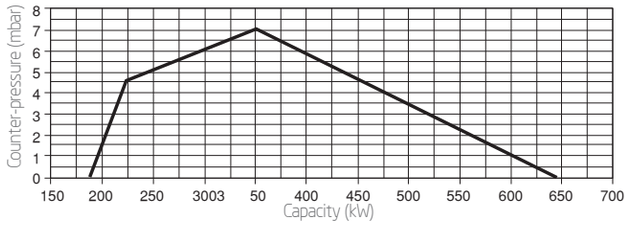
BG2 - 110/340 M



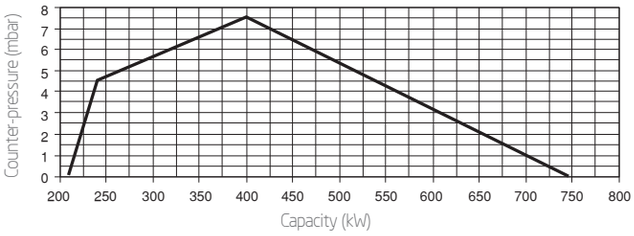
BG2 - 175/545 T



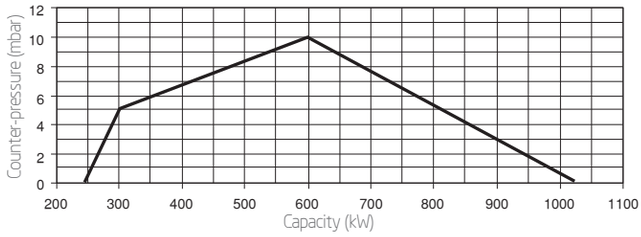
BG 2 - 190/645 T



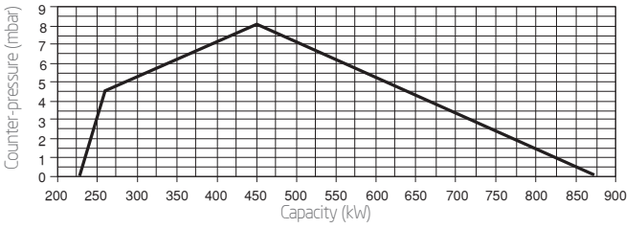
BG2 - 210/745 T



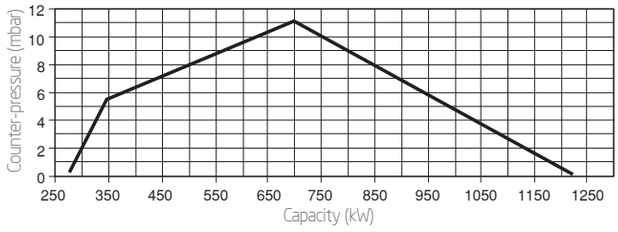
BG2 - 250/1025 T



BG2 - 230/875 T



BG2 - 275/1225 T

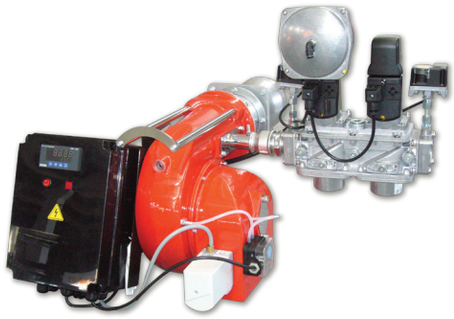


BG 3 Serisi Modulating Gas Burners

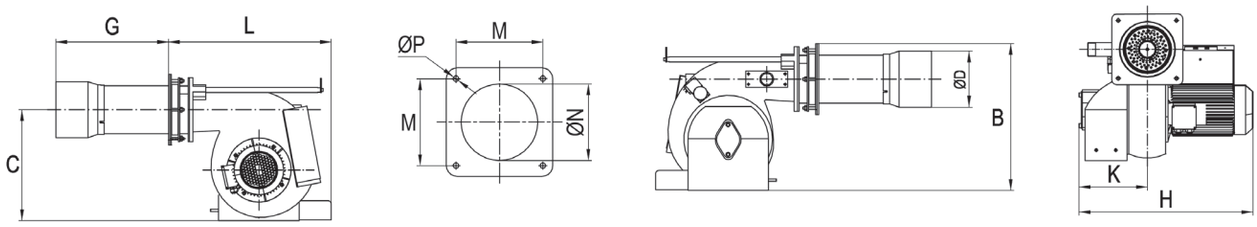
Product Description

BG 3-series proportional burners mean the process of non-gradual changing of gas and air flow between a minimum capacity and a maximum capacity. Proportional burners are efficient in instant and variable load drawings, since they are adapted much faster than a single and dual stage types. Deactivation of proportional burners is lower compared to other operation types.

Baymak BG-Series gas burners ensure trouble-free combustion even with the high counter-pressure boilers by means of the fans developed for obtaining a wider range of area of use with respect to various customer needs.



Burner Dimensions



Technical Data Sheets

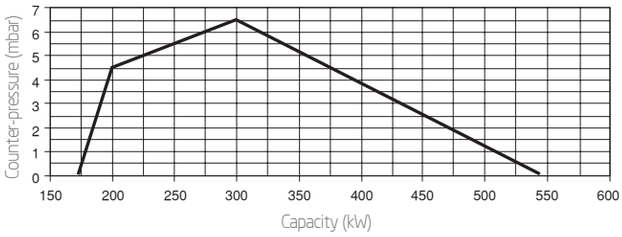
Burner Type	CAPACITY				GAS CONSUMPTION		LPG CONSUMPTION		GAS PRESSURE	MOTOR POWER	VOLTAGE at 50	WEIGHT	GAS VALVE
	Min. Kcal/h	Max. Kcal/h	Min. kW	Max. kW	Min. Nm³/h	Max. Nm³/h	Min. Nm³/h	Max. Nm³/h	mbar	kW	V	Kg	
BG 3-175/545 T Gas Burner 21 mbar	150.500	468.700	175	545	18.2	56.8	6.7	20.8	21	0.75	380	35	VGD 20.4011
BG 3-190/645 T Gas Burner 21 mbar	163.400	554.700	190	645	19.8	67.2	7.3	24.7	21	0.75	380	35	VGD 20.4011
BG 3-210/745 T Gas Burner 21 mbar	180.600	640.700	210	745	21.9	77.7	8.0	28.5	21	0.75	380	40	VGD 20.4011
BG 3-230/875 T Gas Burner 21 mbar	197.800	752.500	230	875	24.0	91.2	8.8	33.4	21	0.75	380	40	VGD 20.5011
BG 3-250/1025 T Gas Burner 21 mbar	215.000	881.500	250	1.025	26.1	106.8	9.6	39.2	21	1.10	380	40	VGD 20.5011
BG 3-275/1225 T Gas Burner 21 mbar	236.500	1.053.500	275	1.225	28.7	127.7	10.5	46.8	21	1.50	380	40	VGD 20.5011
BG 3-175/545 T Gas Burner 300 mbar	150.500	468.700	175	545	18.2	56.8	6.7	20.8	300	0.75	380	35	VGD 20.4011
BG 3-190/645 T Gas Burner 300 mbar	163.400	554.700	190	645	19.8	67.2	7.3	24.7	300	0.75	380	35	VGD 20.4011
BG 3-210/745 T Gas Burner 300 mbar	180.600	640.700	210	745	21.9	77.7	8.0	28.5	300	0.75	380	40	VGD 20.4011
BG 3-230/875 T Gas Burner 300 mbar	197.800	752.500	230	875	24.0	91.2	8.8	33.4	300	0.75	380	40	VGD 20.4011
BG 3-250/1025 T Gas Burner 300 mbar	215.000	881.500	250	1.025	26.1	106.8	9.6	39.2	300	1.10	380	40	VGD 20.4011
BG 3-275/1225 T Gas Burner 300 mbar	236.500	1.053.500	275	1.225	28.7	127.7	10.5	46.8	300	1.50	380	40	VGD 20.4011

Burner Technical Measures

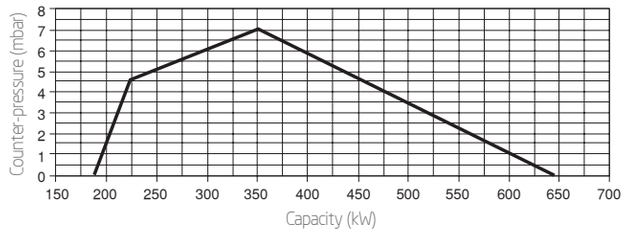
Burner Type	L mm	Gmin mm	Gmax mm	H mm	K mm	B mm	C mm	ØN mm	ØP mm	M mm	ØD mm
BG3-175/545 T	535	160	320	520	220	392	305	133	10	142	153
BG3-190/645 T	535	160	320	520	220	392	305	133	10	142	153
BG3-210/745 T	535	150	350	520	215	455	345	149	11	180	174
BG3-230/875 T	535	150	350	520	215	455	345	149	11	180	174
BG3-250/1025 T	535	150	350	520	215	455	345	149	11	180	174
BG3-275/1225 T	535	150	350	520	215	455	345	149	11	180	174

Capacity - Counter-Pressure Curves

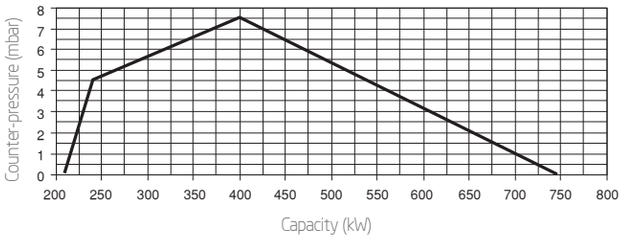
BG3 - 175/545T



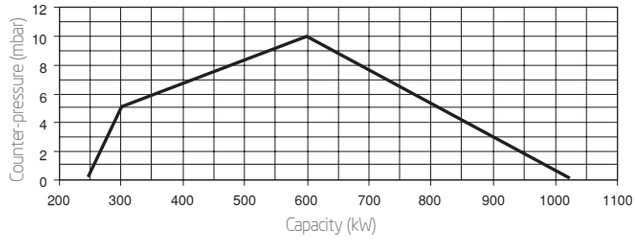
BG 3 - 190/645T



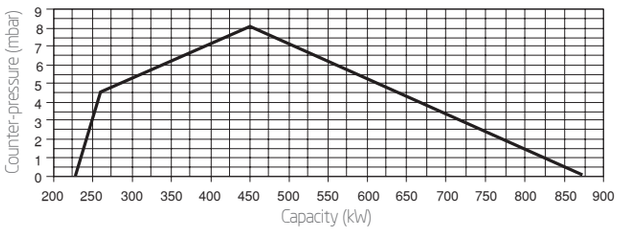
BG3 - 210/745T



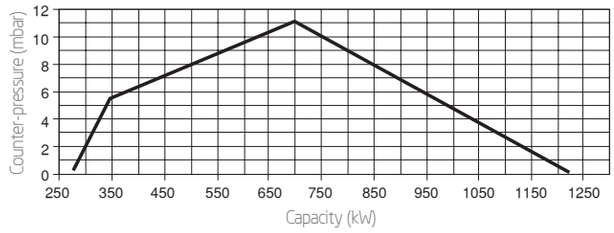
BG3 - 250/1025T



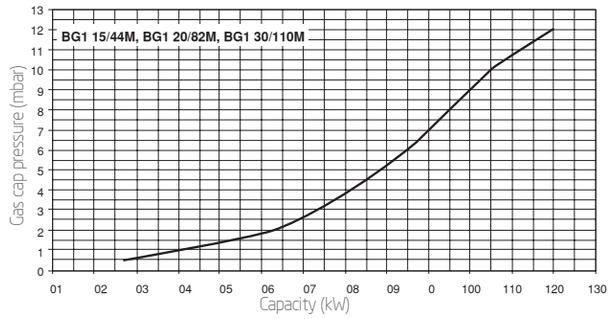
BG3 - 230/875 T

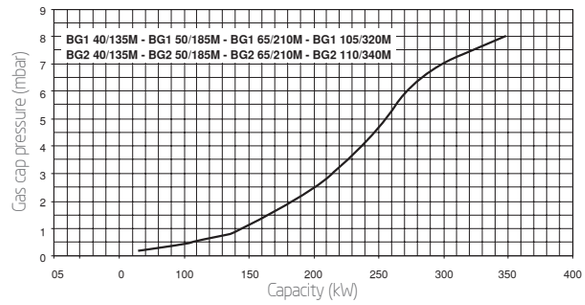


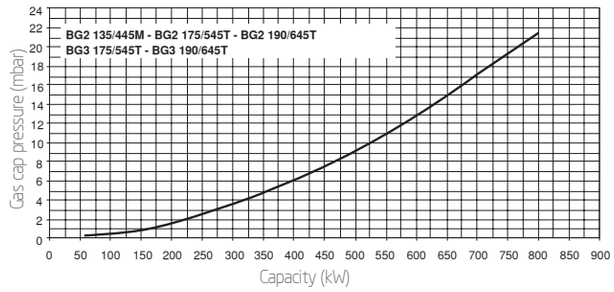
BG3 - 275/1225T

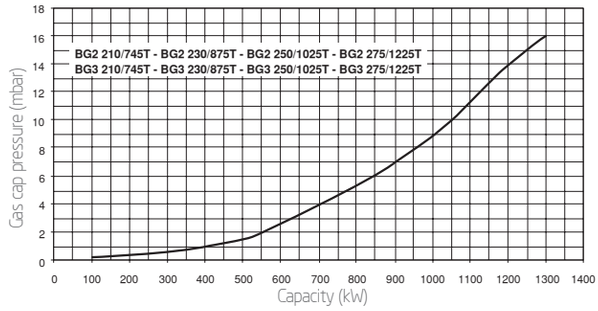


Burner Head Loss Curves





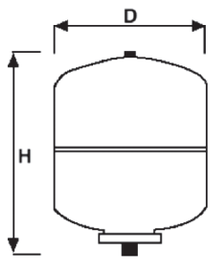




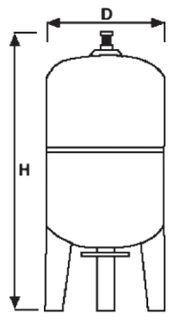
CLOSED EXPANSION TANKS

- 7,5 to 1000 liters capacity range
- Compliance with heating and cooling systems
- Completely resistant body
- High quality membrane replaceable in accordance with the norm of DIN 4807-3
- Compliance with CE standards
- Pre-pressure 1,5 - 4 bar
- Easy to control, maintain and install
- Coated with electrostatic powder paint resistant to external factors and corrosion
- Aesthetic appearance
- Spare parts and service guarantee

Technical Data Sheets



7,5 - 50 *l*



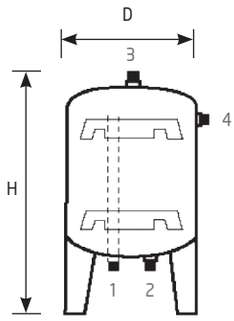
80 - 1000 *l*

Models	Tank Volume (*l*)	Tank Height "H" (mm)	Tank Depth "D" (mm)	Test Pressure (bar)	Operating Temperatures (°C)	Max Operating Pressure (bar)	Connection (inch)	Weight (kg)
TM - 7,5	7,5	345	215	9	-10/100	10	1/2	3,5
TM - 15	15	416	250	9	-10/100	10	1/2	4,4
TM - 18	18	470	250	9	-10/100	10	1	4,9
TM - 20	20	445	235	9	-10/100	10	1	5,3
TM - 25	25	345	360	9	-10/100	10	1	5,9
TM - 40	40	440	360	9	-10/100	10	1	7,7
TM - 50	50	472	430	9	-10/100	10	1	9,4
TM - 80	80	810	430	9	-10/100	10	1	16,4
TM - 100	100	920	460	9-15	-10/100	10	1	18,5-23,6
TM - 200	200	1010	640	9-15	-10/100	10	1 1/2	41,5-47,0
TM - 300	300	1320	640	9-15	-10/100	10	1 1/2	53,6-61,2
TM - 500	500	1510	750	15	-10/100	10	1 1/4	65,2
TM - 750	750	1920	800	15	-10/100	10	1 1/2	123,4
TM - 1000	1000	2200	800	15	-10/100	10	2	153,0

OPEN EXPANSION TANKS

- 50 to 500 liter capacity range
- Compliance with heating systems
- Completely resistant body
- Easy to control, maintain and install
- Coated with electrostatic powder paint resistant to external factors and corrosion
- Aesthetic appearance
- Spare parts and service guarantee

Technical Data Sheets



1. Expansion flow
2. Expansion return
3. Aerial unit
4. Messenger

Tank Volume (l)	Tank Height "H" (mm)	Tank Depth "D" (mm)	Operating Temperatures (°C)	CONNECTION				Weight (kg)
				Discharge (inch)	Messenger (inch)	Aerial (inch)	Inlet-Outlet (inch)	
50	595	430	-10/100	1/2	1/2	3/4	1	9,4
80	835	430	-10/100	1/2	1/2	3/4	1	15
110	895	460	-10/100	1/2	1/2	3/4	1	17,4
200	998	650	-10/100	1/2	1/2	3/4	1 1/4	34,5
300	1295	650	-10/100	1/2	1/2	3/4	1 1/2	45,2
500	1475	750	-10/100	1	1/2	3/4	1 1/4	52,3

REFERENCES

REFERENCES

FATİH KOLEJİ	GEBZE/KOCAELİ	LECTUS 115 x 12 PCS.
OPTİMUM EVLERİ	HALKALI/İSTANBUL	LECTUS 115 x 7 PCS.
METROKONUTLARI	BAĞCILAR/İSTANBUL	LECTUS 115 x 16 PCS.
MUTLUTÜRK EVLERİ	MALTEPE/İSTANBUL	LECTUS 115 x 4 PCS.
YASAKULE	KARTAL/İSTANBUL	LECTUS 115 x 3 PCS.
ASIA REZİDANS	KARTAL/İSTANBUL	LECTUS 115 x 13 PCS.
AZAK OTEL	TOPKAPI/İSTANBUL	LECTUS 115 x 7 PCS.
BURSA B.ŞHR. BL.SPOR KOMP.	BURSA	LECTUS 115 x 15 PCS.
KETENCİ KONUTLARI	TURGUTLU MANİSA	LECTUS 115 x 24 PCS.
BUCAK END. MESLEKL LİSESİ	BUCAK/BURDUR	MAGNUS 285, 575, 700 x 3 PCS.
RİXOS SUNGATE HOTEL	KEMER/ANTALYA	LECTUS 115 x 39 PCS.
GRANADA RESİDENCE	İZMİR	LECTUS 115 x 23 PCS.
SU DÜNYASI PROJESİ	DENİZLİ	LECTUS 115 x 21 PCS.
ARTUN RESİDENCE	UŞAK	LECTUS 115 x 19 PCS.
TED EGE KOLEJİ	AYDIN	LECTUS 115 x 14 PCS.
KAVUKLAR İNŞAAT	İZMİR	LECTUS 115 x 18 PCS.
İNANLAR İNŞAAT TERRACE MİX	ESENYURT/İSTANBUL	LECTUS 115 x 62 PCS.
EMLAK KONUT KÖRFEZKENT	KOCAELİ	LECTUS 115 x 170 PCS.
BEYKALE İNŞAAT BEYKASRI KONAKLARI	B.DÜZÜ/İSTANBUL	MAGNUS-I 650 x 6 PCS.
		MAGNUS-II 570 x 2 PCS.
LUNA BLANCA HOTEL	ANTALYA	ISI POMPASI 43 x 3 PCS.
		ISI POMPASI 20 x 1 PCS.
		APOLLO KOLLEKTÖR 130 x 1 PCS.
BAK YAPI PRESTIGE PARK	ESENYURT/İSTANBUL	LECTUS 115 x 174 PCS.
AKDAĞ İNŞAAT	ANKARA	LECTUS 115 x 24 PCS.
BAHAR IŞIL İNŞ. RODOSTO KONAKLARI	TEKİRDAĞ	LECTUS 115 x 32 PCS.
GREY YAPI TRENDİST	ATAŞEHİR/ İSTANBUL	MULTİBLOK 1000000 x 8 PCS.
		MULTİBLOK 700000 x 14 PCS.
PEKDEMİR İNŞAAT	KOCAELİ	KOMBİ x 930 PCS.
NATURAPARK EVLERİ	NAZİLLİ/AYDIN	LECTUS 115 x 4 PCS.
BUCA GÜRÇEŞME HUZUREVİ	BUCA/İZMİR	LECTUS 115 x 6 PCS.
BOZKÖY DOĞA PARK SİTESİ	MANİSA	LECTUS 115 x 3 PCS.
MANİSA E-TİPİ KAPALI CEZAEVİ	MANİSA	LECTUS 90 x 5 PCS.
		LECTUS 115 x 5 PCS.
KARŞIYAKA SPOR VE DİNLENME TESİSLERİ	ÇİĞLİ/İZMİR	LECTUS 115 x 1 PCS.
MTC MEDİKAL	GAZİEMİR/İZMİR	LECTUS 115 x 2 PCS.
A. TANER KIŞLALI SPOR KOMPLEKSİ	G.EMİR/İZMİR	LECTUS 115 x 4 PCS.
YAĞMUR EVLER IV	KARŞIYAKA/İZMİR	LECTUS 115 x 7 PCS.

İZMİR İL EMNİYET MÜDÜRLÜĞÜ	İZMİR	LECTUS 115 x 4 PCS.
BUCA BEL. EK HİZMET BİNASI	BUCA/İZMİR	LECTUS 115 x 4 PCS.
GRAND PARK LARA HOTEL	LARA/ANTALYA	APOLLO XL x 320 PCS.
SÜRAL VICTORY RESORT	MANAVGAT/ANTALYA	APOLLO XL x 232 PCS.
THE COLORS HOTEL	MANAVGAT/ANTALYA	APOLLO XL x 140 PCS.
		LECTUS 115 x 8 PCS.
SULTAN OF DREAMS	MANAVGAT/ANTALYA	APOLLO XL x 200 PCS.
PAŞA BEACH	MARMARİS/MUĞLA	APOLLO XL x 215 PCS.
WATER PLANET BOTAM	ALANYA/ANTALYA	APOLLO XL x 150 PCS.
OLIMPOS LODGE	KEMER/ANTALYA	APOLLO XL x 20 PCS.
ÇIRALI ODELA HOTEL	KEMER/ANTALYA	APOLLO XL x 45 PCS.
DIONS RESORT	BELEK/ANTALYA	APOLLO XL x 143 PCS.
		LECTUS 115 x 5 PCS.
FİDAN HOTEL	MARMARİS/MUĞLA	APOLLO XL x 40 PCS.
MISIRLIOĞLU MİMARLIK	ANTALYA	APOLLO XL x 230 PCS.
		LECTUS 115 x 6 PCS.
AYA YORGI	ÇEŞME/İZMİR	APOLLO XL x 80 PCS.
TRT KAMPI	LARA/ANTALYA	CONCORDE XL x 100 PCS.
SIAM ELEGANCE HOTEL	BELEK/ANTALYA	LECTUS 115 x 10 PCS.
MAYA GOLF RESORT	MANAVGAT/ANTALYA	LECTUS 115 x 5 PCS.
BURDUR BEL. HİZMET BİNASI	BURDUR	LECTUS 115 x 8 PCS.
İBB SPOR A.Ş. YEŞİLPINAR YÜZME HAVUZU	EYÜP/İSTANBUL	ADVANCED XL x 40 PCS.
İBB SPOR A.Ş. TUZLA SAHİL SPOR TES.	TUZLA/İSTANBUL	ADVANCED XL x 24 PCS.
İBB SPOR A.Ş. PENDİK SPOR TES.	PENDİK/İSTANBUL	ADVANCED XL x 16 PCS.
NEW RESİDENS	BEYLİKDÜZÜ/İSTANBUL	LECTUS 115 x 9 PCS.
GÖKSUKENT	SİLİVRİ/İSTANBUL	LECTUS 115 x 5 PCS.
STAR TOWERS	KIRAÇ/İSTANBUL	LECTUS 115 x 96 PCS.
PETEK APT.	ADANA	LECTUS 115 x 7 PCS.
ZEKİYE KIZ ÖĞR.YURDU	MERKEZ/KARS	LECTUS 115 x 4 PCS.
CİMDİLLİ OTOMOTİV	MERKEZ/ERZURUM	LECTUS 115 x 8 PCS.
MURAT TABANCA YAPI KOOP.	MERKEZ/ERZURUM	LECTUS 115 x 3 PCS.
		LECTUS 90 x 2 PCS.
SAMSUN İLİM YAYMA VAKFI	MERKEZ/SAMSUN	LECTUS 115 x 9 PCS.
MERZİFON KAPALI YÜZME HAV.	MERZİFON/AMASYA	LECTUS 115 x 9 PCS.
AMASYA EMNİYET LOJMANLARI	MERKEZ/AMASYA	LECTUS 115 x 3 PCS.
TAÇ SİTY SİTELERİ	KASTAMONU	LECTUS 115 x 20 PCS.
CENEVİZ SİTESİ	AKÇAKOCA/DÜZCE	LECTUS 115 x 10 PCS.
KİRAZLIKENT SİTESİ	MERKEZ/AMASYA	LECTUS 115 x 4 PCS.

Bak Yapı Prestige Park - Esenyurt

Necat İnşaat Evila - Başakşehir

Azak Hotel - Topkapı

İstanbul Büyük Şehir Belediyesi Yeşil-
pınar Kültür Merkezi

Star Towers - İstanbul

Fatih Koleji - Gebze

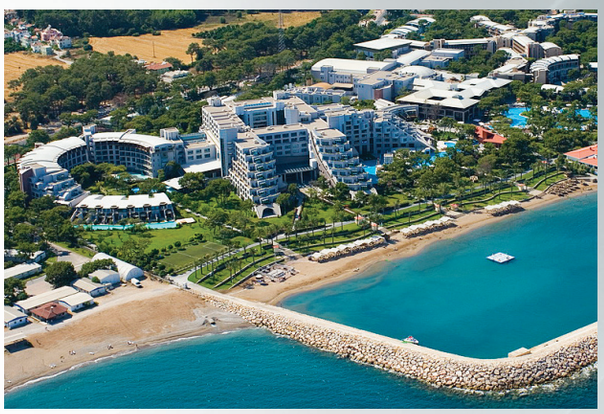
baymak

İnanlar Terrace Mix - Esenyurt

Emlak Konut Körfez Kent - İzmit

Ege Palas Hotel - İzmir

Rixos Hotel



Granada Residence - İzmir

Sultan of Dreams - Manavgat

baymak

Katip Cebeci Üniversitesi - İzmir

Trendist - Ataşehir

Luna Balanca Hotel - Antalya

Fuzul İnşaat Arriva - Başakşehir

Beykasrı Konakları - Beylikdüzü

baymak

UNIT-TO-UNIT EASY CONVERSION TABLE

PRESSURE								
	psi	inç su 60°F	inç Hg (civa) 32°F	atm	mm Hg 32°F	bar	kgf/cm^2	pascal
psi	1	27,708	2,0360	0,068046	51,715	0,068948	0,07030696	6894,8
inç su	0,036091	1	0,073483	2,4559x10^{-3}	1,8665	2,4884x10^{-3}	2,537x10^{-3}	248,84
inç Hg	0,491154	13,609	1	0,33421	25,4	0,33864	0,034532	3386,4
atm	14,6960	407,19	29,921	1	760	1,01325	1,03323	101325
mm Hg	0,0193368	0,53578	0,03937	1,31579x10^{-3}	1	1,3332x10^{-3}	1,3595x10^{-3}	133,32
bar	14,5038	401,86	29,53	0,98692	750,062	1	1,01972	100000
kgf/cm^2	14,223	394,1	28,959	0,96784	735,559	0,980665	1	98066,5
pascal	1,45038x10^{-4}	4,0186x10^{-3}	2,953x10^{-4}	9,8692x10^{-6}	7,50x10^{-3}	10^{-5}	1,01972x10^{-5}	1

MASS				
	lb	grain	ons	kg
lb	1	7000	16	0,45359
grain	1,4286x10^{-4}	1	2,2857x10^{-3}	6,48x10^{-5}
ons	0,0625	437,5	1	0,02835
kg	2,20462	15432	35,274	1

VOLUME					
	inç^3	ft^3	gallon	liter	m^3
inç^3	1	0,0005787	0,004329	0,0163871	1,63871x10^{-5}
ft^3	1728	1	7,48052	28,317	0,028317
gallon	231	0,13368	1	3,7854	0,0037854
litre	61,02374	0,035315	0,264173	1	0.001
m^3	61023,74	35,315	264,173	1000	1

ENERGY					
	Btu	ft.lb$_f$	calorie	joule	watt-hour
Btu	1	778,17	251,9958	1055,056	0,293071
ft.lb	1,2851x10^{-3}	1	0,32383	1,355818	3,7666x10^{-4}
kalori	3.9683x10^{-3}	3,08803	1	4,1868	0,00163
joule	9,4782x10^{-4}	0.73756	0,23885	1	2,7778x10^{-4}
watt-saat	3,41214	2655,22	859,85	3600	1

DENSITY				
	lb/ft^3	lb/gal	g/cm^3	kg/m^3
lb/ft^3	1	0,133680	0,016018	16,018463
lb/gal	7,48055	1	0,119827	119,827
g/cm^3	62,428	8,34538	1	1000
kg/m^3	0,062428	0,008345	0,001	1

UNIT-TO-UNIT EASY CONVERSION TABLE

SPECIFIC VOLUME				
	ft^3/lb	**gal/lb**	**cm^3/g**	**m^3/kg**
ft^3/lb	1	7,48055	62,428	0,062428
gal/lb	0,13368	1	8,34538	0,008345
cm^3/g	0,016018	0,119827	1	0,001
m^3/kg	16,018463	119,827	1000	1

SPECIFIC HEAT			
	Btu/(lb.ft.° F)	**Cal/(g.K)**	**KJ/(kg.K)**
Btu/(lb.ft.° F)	1	1	4,1868
Cal/(s.cm.° C)	1	1	4,1868
KJ/(kg.K)	0,23885	0,23885	1

ENTHALPY			
	Btu/lb	**Cal/g**	**J/g**
Btu/lb	1	0,55556	2,326
Cal/g	1,8	1	4,1868
J/g	0,42992	0,23885	1

CONDUCTIVITY			
	Btu/(h.ft.° F)	**Cal/(s.cm.° C)**	**W/(m.K)**
Btu/(h.ft.° F)	1	0,0041338	1,7307
Cal/(s.cm.° C)	241,91	1	418,68
W/(m.K)	0,5779	0,002388	1

VISCOSITY					
	poise	**$lb_f.s/ft^2$**	**$lb_f.h/ft^2$**	**kg/m.s**	**$lb_m/ft.s$**
poise	1	0,0020885	$5,8014 \times 10^{-7}$	0,1	0,0671955
$lb_f.s/ft^2$	487,8026	1	$2,7778 \times 10^{-4}$	47,88026	32,17405
$lb_f.h/ft^2$	1723689	3600	1	172369	$1,72369 \times 10^{-6}$
kg/m.s	10	0,020885	$5,8014 \times 10^{-6}$	1	0,0671955
$lb_m/ft.s$	14,8819	0,031081	$8,6336 \times 10^{-6}$	1,4882	1

HEAT TRANSFER COEFFICIENT				
	Btu/(h.ft^2.° F)	**Cal/(s.cm^2.° C)**	**Kcal/(h.m^2.° C)**	**W/(m^2 K)**
Btu/(h.ft^2.° F)	1	0,00007535	2,712	3,154
Cal/(s.cm^2.° C)	13272	1	36000	41870
Kcal/(h.m^2.° C)	0,3687	0,00002778	1	0,00011163
W/(m^2 K)	0,317	0,00002388	0,86	1

* The values in the book of ASHRAE (American Society of Heating, refrigerating and air-Conditioning Engineers) Fundementals 2001 were taken into consideration during the preparation of all unit conversion tables.