

INDIVIDUAL
HEATING
SYSTEMS

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

Stainless
steel
domestic hot
water heat
exchanger

MODELS

BYP-HE24 20.640 kcal/h heating capacity

BYP-HE 28 24.590 kcal/h heating capacity

BYP-HE 33 28.380 kcal/h heating capacity

BYP-HE 42 36.120 kcal/h heating capacity

BYP-HE 45 38.700 kcal/h heating capacity



www.baymak.com.tr

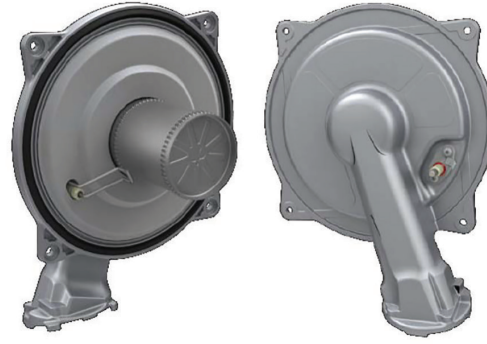
BDR THERMEA GROUP

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	-	C13(x)-C33-C53	C13(x)-C33-C53	C13(x)-C33-C53	C13(x)-C33-C53	C13(x)-C33-C53
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
Doğalgaz besleme basıncı	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