18429 - Flextherm Duo 500 white

Product Data Sheet 2026/11/22



An indirectly heated and upright water heater including a permanently welded-in heating coil, suitable for all modern heating systems.

Advantages

- Minimum lime deposits due to smooth surfaces. High-quality glass lining according to DIN 4753/part 3 for potable hot water production and optimum corrosion protection by means of a standard Mg-anode.
- Equipped with a built-in thermometer and immersion pipe.
- A set of adjustable feet is optionally available (Art.No. 18989).
- From 400 litres, equipped with a DN 110 inspection flange at the side, suitable for connecting additional heating elements; Ex Works - closed with a removeable blind flange.
- The heating coil is designed to ensure full depth heating to prevent the accretion of Legionella bacteria.

Technical Specifications

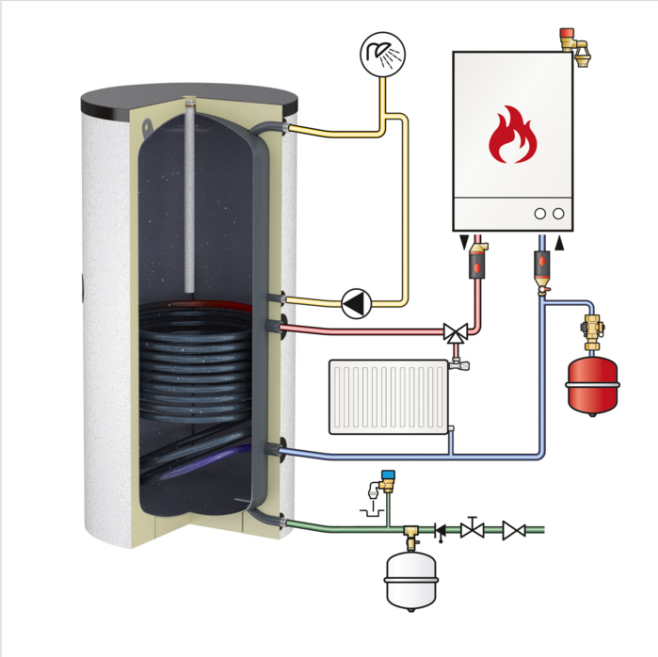
- Maximum working pressure: 10 bar (potable water vessel) / 16 bar (heating coil).
- Maximum working temperature: 95 °C (potable water vessel) / 130 °C (heating coil).
- Insulation:

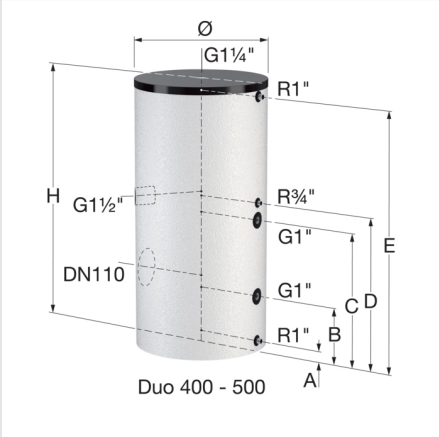
Standard colours: white (RAL 9010) and white aluminium (RAL 9006).
Including hard foam insulation (direct foam injection) with a polystyrene outer shell.

Description		Flextherm Duo 500 white
Order Code		18429
GTIN		8712874184299
Model		Flextherm Duo 120 - 500
Capacity [l]		500
Dimensions*	Ø [mm]	750
	H [mm]	1730
	Tilting height [mm]	1895
Heating surface area [m^2]		2.0
Heating capacity [kW]**		45.2
Water capacity [l/h]**		785
Insulation colour		white
Weight [kg]		181

* Dimensions including insulation.
** At 80 °C supply temperature and 60 °C potable water temperature.

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Flextherm Duo 120 - 500 - Connection diagram

Type	Distance from floor to connection centres				
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
Flextherm Duo 120	65	245	545	635	885
Flextherm Duo 150	65	245	590	690	985
Flextherm Duo 200	65	245	710	885	1285
Flextherm Duo 300	65	310	750	850	1560
Flextherm Duo 400	70	330	770	870	1470
Flextherm Duo 500	70	330	890	990	1670

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Flextherm Duo - Performance

Technical specifications	Flextherm Duo									
	120	150	200	300	400	500	750	1000	1500	2000
Total heat loss (EN 12897) [W]	56	63	83	87	96	102	117	145	160	181
Energy label	C	C	C	C	C	C	C	C	C	C
Insulation thickness [mm]	80	80	80	80	80	80	80	80	100	100
Performance index (T => 60 °C) [NL]	1.3	2.1	4.0	8.6	14.0	20.0	29.0	42.0	80.0	110.0
Continuous power (T => 45 °C) [kW]**	14.7	16.7	26.8	42.8	51.3	65.4	97.7	107.5	207.9	247.9
Continuous power (T => 60 °C) [kW]**	10.2	11.6	18.6	29.5	35.4	45.2	67.1	73.9	143.0	170.0
Continuous power (T => 70 °C) [kW]**	11.8	13.5	21.5	34.3	41.1	52.4	78.2	86.1	166.5	198.2
Peak flow (T => 40 °C) [l/10 min.]*	94	100	147	200	294	300	574	600	800	1000
Peak flow (T => 60 °C) [l/10 min.]*	89	100	144	200	287	300	549	600	800	1000
Continuous output (T => 40 °C) [l/h]*	357	409	653	1038	1245	1588	2362	2599	5028	5980
Continuous output (T => 40 °C) [l/h]**	440	500	799	1279	1532	1953	2917	3211	6208	7402
Continuous output (T => 45 °C) [l/h]**	364	414	662	1059	1269	1617	2415	2659	5141	6128
Continuous output (T => 60 °C) [l/h]*	177	202	323	513	615	785	1166	1283	2483	2951
Continuous output (T => 70 °C) [l/h]**	171	195	312	497	595	759	1132	1246	2410	2869
First hour output (T => 40 °C) [l/h]*	391	442	691	1066	1331	1629	2543	2794	4978	5985
First hour output (T => 60 °C) [l/h]*	236	272	413	633	799	982	1521	1734	2990	3662
First hour output (T => 70 °C) [l/h]*	231	266	403	620	782	961	1492	1704	2933	3600
Heat up time (T => 40 °C) [min.]**	16	18	15	14	16	15	15	19	14	16
Heat up time (T => 45 °C) [min.]**	20	22	18	17	19	19	19	23	18	20
Set drain rate [l/min.]	10	10	15	20	30	30	60	60	80	100
Hot water flow (T => 60 °C) [l/h]*	500	500	800	1500	1700	2100	3900	4400	8000	11000
Heating surface of the coil [m^2]	0.5	0.6	0.9	1.3	1.6	2.0	2.7	3.2	6.4	7.3
Pressure drop coil 80/60 °C [kPa]	0.4	0.5	1.6	6.8	10.2	18.7	5.4	7.3	5.0	9.8

* Hot leg temperature: 80 °C, cold water temperature: 10 °C.
** Hot leg temperature: 90 °C, cold water temperature: 10 °C.
n/a = not applicable.

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Classification General Data

Etim Group	Boilers, heaters and heat pumps
Etim Class	Hot tap water boiler indirectly heated (single heat exchanger)
Product Name	An indirectly heated and upright water heater including a permanently welded-in heating coil, suitable for all modern heating systems.
Brand	Flamco
Product Type	Water Heaters - Glass lined
Order Code	18429
GTIN	8712874184299

Attributes

Material boiler tank	Steel
Material casing	Other
Max. transferable capacity 80/10-45	45.2 kW
Surface protection tank	Enamelled
Volume	500 l
Heat transfer	Spiral
Double separation	No
Wall set-up	No
Vertical positioning	Yes
Max. primary operating pressure	10 bar
Max. secondary operating pressure	16 bar
With pressure reducing valve	No
With pressure gauge	No
With thermometer	Yes
With cleaning opening	Yes
Protective anode	Yes
Height	1830 mm
Width	750 mm
Depth	750 mm
Diameter	750 mm
Tilting height	1895 mm
Cold tap water connection	Other
Nominal diameter cold tap water	1 inch (25)
Outer pipe diameter cold tap water	33.7 mm
Hot tap water connection	Other
Nominal diameter hot tap water	1 inch (25)
Outer pipe diameter hot tap water	33.7 mm
Circulation pipe connection	Other
Nominal diameter circulation pipe	1 inch (25)
Outer pipe diameter circulation pipe	33.7 mm
Primary connection	Other
Nominal diameter primary connection	1 inch (25)
Connection, drainage connection	Other
Nominal diameter drain connection	1 inch (25)
Outer pipe diameter drainage connection	33.7 mm
Energy efficiency class	C
Maximum transferrable capacity 90/10-40	45.2 kW
Thread size, cold tap water	1 inch

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Hot tap water thread size	1 inch

Find more information online:

Installation and operating instruction
PZH certificate
Duo ADSK
Duo DWG
Duo IPT
Duo STEP
ErP label Duo 500
Selection Guide Water Heaters and Buffer Vessels
Selection Guide Water Heaters and Buffer Vessels UK

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