

EXTRA 1 INOX COMPACT

STAINLESS STEEL 316L CALORIFIERS, SUITABLE FOR LOW-CEILINGED ROOM,
WITH 1 EXTRACTABLE STAINLESS STEEL HEAT EXCHANGER



APPLICATION

Production and storage of domestic hot water (DHW).
Suitable for low-ceilinged room.

MATERIAL

Stainless Steel 316 L suitable for domestic hot water

HEAT EXCHANGER:

Stainless steel 316L. Antilegionella® heat exchanger, with tubes bent to the bottom

INSULATION (DISMOUNTABLE)

NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.

Grey PVC external lining.

CATHODE PROTECTION

n° 2 magnesium anodes.

DRAIN

External confluence through drain connection.

GASKET- FLANGE PLATE

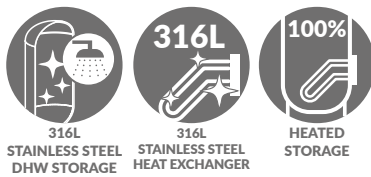
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Mild steel exchanger head with anticorrosion treatment.

WARRANTY

5 years (See general sales conditions and warranty)

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



EXTRA 1 COMPACT XXC

DISMOUNTABLE SOFT FLEECE INSULATION

HEAT EXCHANGER SURFACE INOX 316L

Model	Art. Nr.	[m ²]
2500	3072052300411	5
3000	3072052300413	6
4000	3072052300415	8



ACCESSORIES

ELECTRIC IMMERSION HEATERS

Mod.	Heated volume by electric immersion heater [lt]	MONOPHASE			THREEPHASE					
		1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW	9 kW	12 kW	
		52400000000051	52400000000052	52400000000053	52400000000047	52400000000048	52400000000049	52400000000050	52400000000051	
		Ignition time from 10 °C to 45 °C with electric immersion heaters [min]								
2500	797	1428	1071	714	535	428	357	238	178	
3000	874	1565	1173	782	587	469	391	261	196	
4000	924	1655	1241	828	621	497	414	276	207	

Titanium anode (for stainless steel calorifiers)

See Accessories section



Thermometer

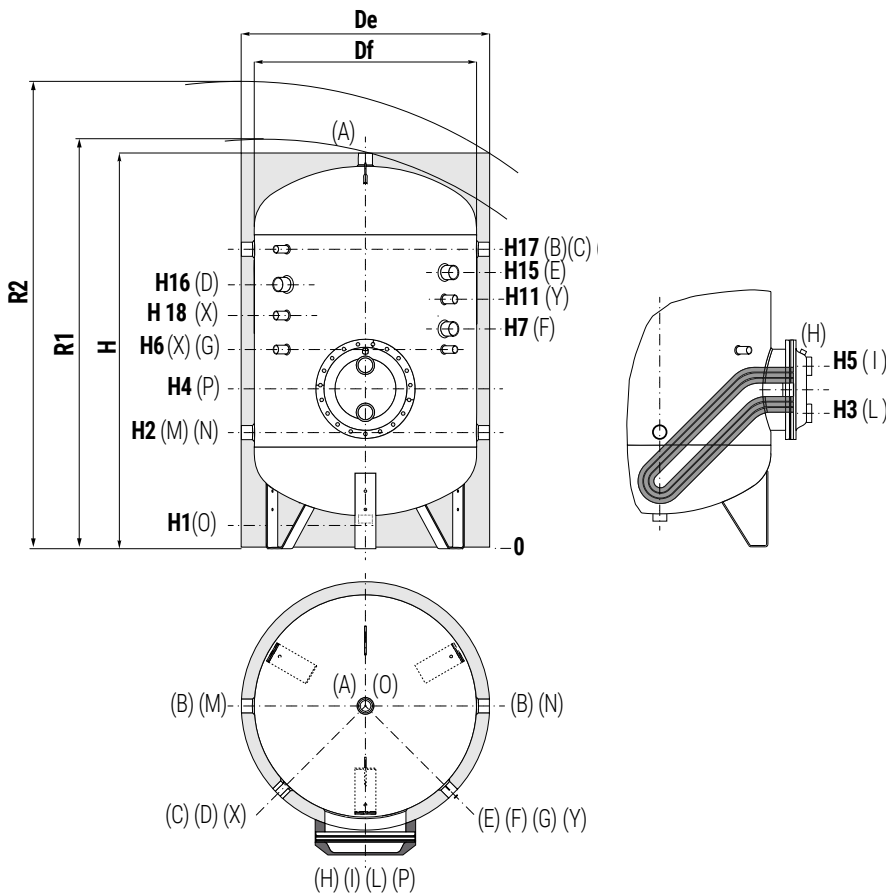
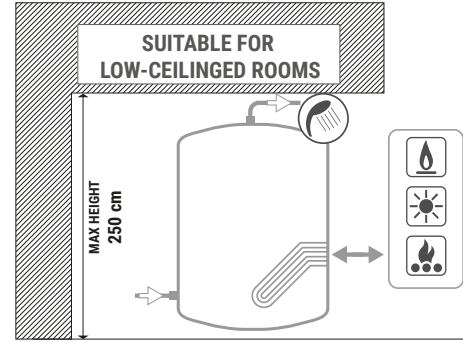
Art. Nr.
5032240000107
5 units box



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STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
6 bar	95 °C	12 bar	110 °C



- A** Domestic hot water outlet 2" G F
- B** Recirculation / Domestic hot water outlet 2" G F
- C** Connection for instrumentation 1/2" G F
- D** Connection for electric immersion heater 2" G F
- E** Connection for 2nd magnesium anode/Titanium anode 1" 1/4 G F
- F** Connection for magnesium anode/Titanium anode 1" 1/4 G F
- G** Connection for instrumentation 1/2" G F
- H** Heat exchanger drain 3/8" G F
- I** Primary circuit inlet 2" G F
- L** Primary circuit outlet 2" G F
- M** Domestic cold water circuit inlet 2" G F
- N** Alternative domestic cold water circuit inlet or connection for more tanks in series 2" G F
- O** Drain 1" G F
- P** Flange
- X** Connection for titanium anode 3/4" G F
- Y** Connection for titanium anode 3/4" G F (only 4000)

Model	Volume	Weight	Df	De	H	R1	R2	H1	H2	H3
	[lt]	[kg]								
2500	2627	382	1400	1500	2122	2251	2610	117	557	677
3000	3029	415	1500	1600	2131	2276	2670	106	556	736
4000	3990	553	1600	1700	2409	2555	2960	94	564	744

Model	H4	H5	H6	H7	H11	H15	H16	H17	H18	P
	[mm]									
2500	782	887	957	982	//	1552	1501	1657	1180	Øi350/Øe430
3000	841	946	1016	981	//	1551	1500	1656	1180	Øi350/Øe430
4000	849	954	1024	1029	1611	1809	1732	1904	1250	Øi350/Øe430

P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE

EXTRA 1 INOX COMPACT

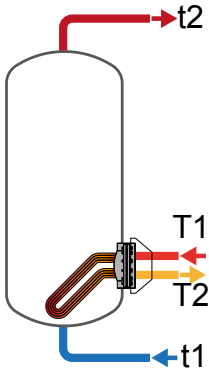
HEAT EXCHANGERS TECHNICAL DATA



Data have been calculated on following basis:

- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continuous from 10 °C to t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at t2, input 10 °C and output 45 °C;
- 4) Non-scaling sanitary water

LOWER
HEAT EXCHANGER



Model	Primary flow rate [m³/h]	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80	
2500	20	134	134	92	58	69	111	133	180	1699	2738	3288	4453
	10	164	164	114	73	59	93	111	148	1465	2302	2741	3665
3000	20	130	130	90	57	100	159	190	255	2461	3926	4694	6321
	10	162	162	113	73	84	130	154	204	2082	3224	3817	5053
4000	20	133	133	92	59	131	207	247	330	3236	5121	6105	8168
	10	170	170	119	77	110	168	198	260	2718	4151	4903	6443

Model	Primary flow rate [m³/h]	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure drop	
		T1/t2				T1/t2				[mmH ₂ O]	[mbar]
	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
2500	20	3276	4198	4289	4484	4352	5932	6372	7304	2436	238,9
	10	3237	4125	4198	4352	4165	5583	5934	6673	624	61,2
3000	20	3862	4969	5097	5368	5420	7455	8069	9371	2836	278,1
	10	3798	4852	4950	5156	5117	6893	7368	8357	723	70,9
4000	20	5090	6542	6706	7050	7140	9785	10573	12223	3896	382,1
	10	5004	6380	6506	6762	6725	9009	9611	10843	989	97,0

MAXIMUM STORAGE EXPLOITATION WITH CURVED ANTILEGIONELLA® HEAT EXCHANGER

Cordivari heat exchangers, with tubes bent to the bottom, are able to heat the complete volume in an homogeneous way.

Energy storing is therefore improved and ignition time data refer to the complete volume of the tank, while in traditional straight heat exchangers equipped calorifires, a range between 9-17% of the volume remains cold.



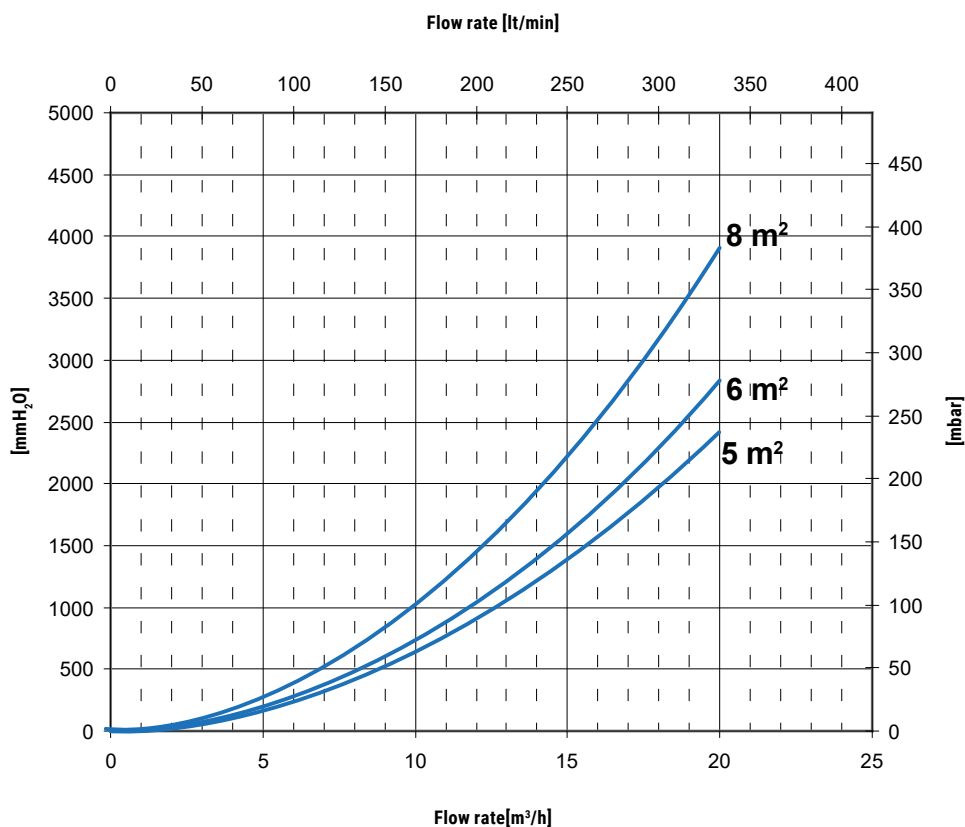
Model	Heated volume: Standard heat exchanger	Storage volume: Heat exchanger for 100% heated volume	Advantage in exploited volume	Advantage in percentage
	[lt]	[lt]	[lt]	[%]
2500	1905	2315	410	18%
3000	2438	2921	483	17%
4000	3113	3769	656	17%

EXTRA 1 INOX COMPACT

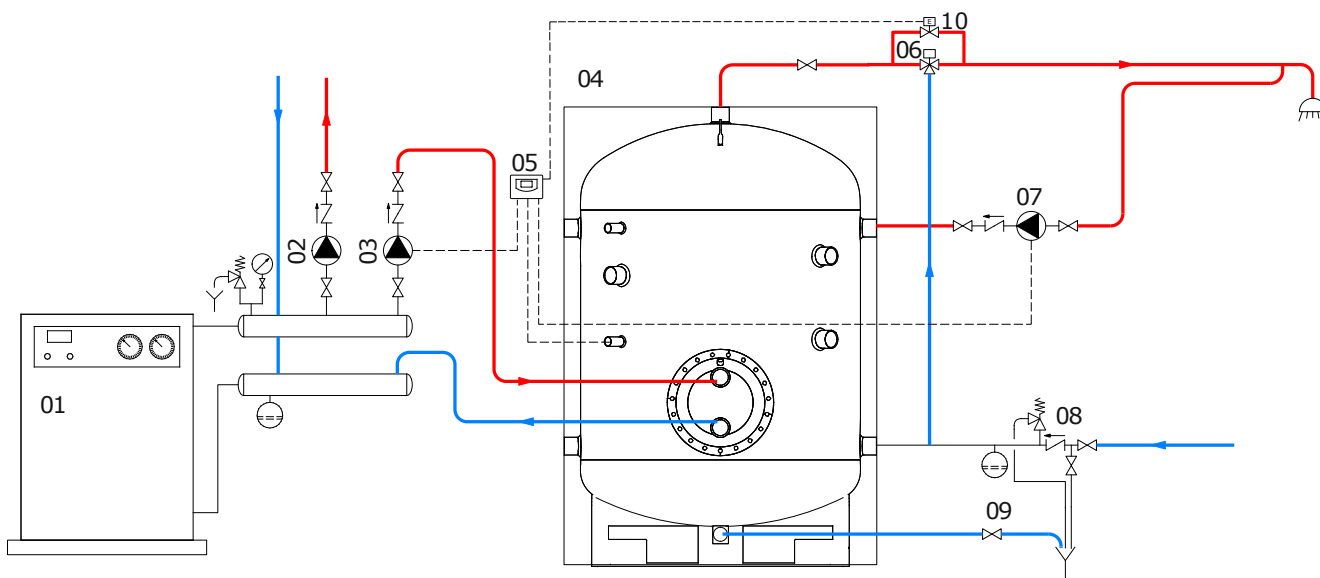
HEAT EXCHANGERS PRESSURE DROP ANTILEGIONELLA®



Lower heat exchanger surface [m ²]	
2500	5
3000	6
4000	8



EXAMPLE OF INSTALLATION WITH EXTRA 1 INOX COMPACT



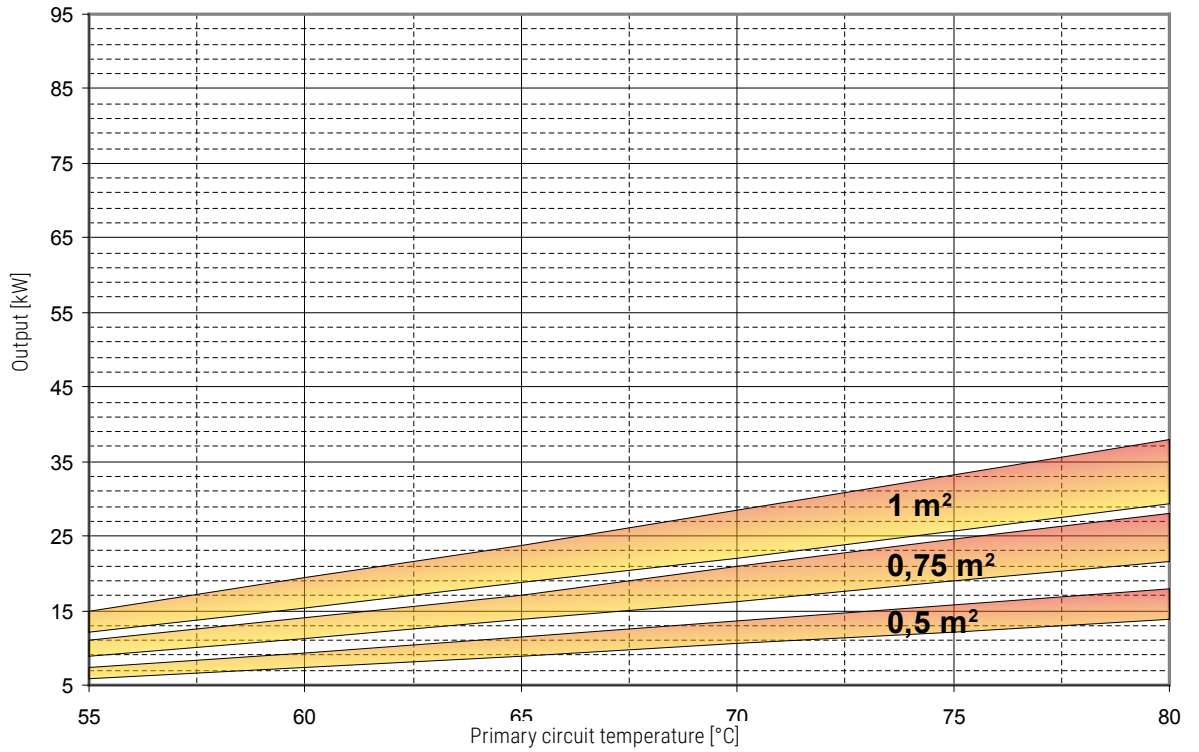
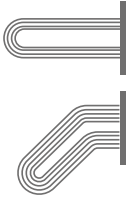
1 Generator	4 EXTRA 1 INOX COMPACT	7 D.H.W. recirculation group	10 By-pass solenoid valve
2 Heating system circulation group	5 Electronic Control/thermostat	8 Hydraulic safety group	
3 D.H.W. circulation group	6 Thermostatic mixing valve	9 Blowdown valve	

The following schemes are purely illustrative. To realize the installation, always refer to a qualified technician.

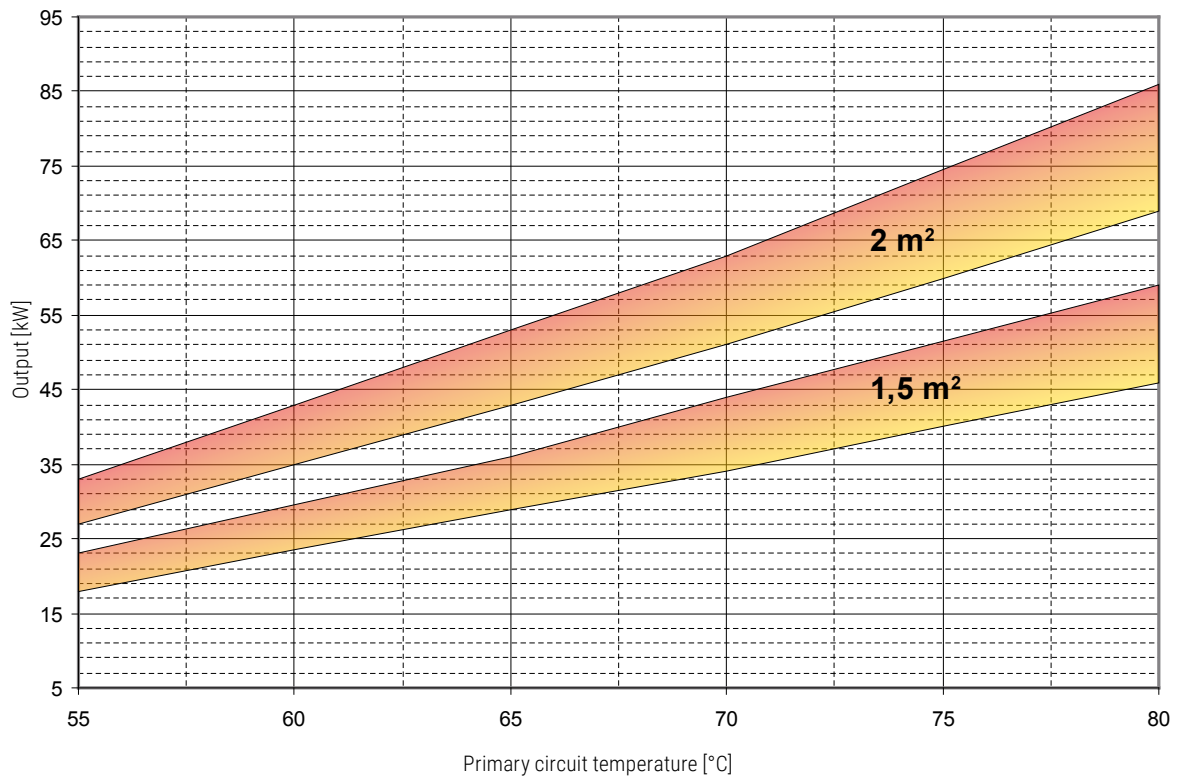
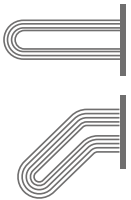
EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

HEAT EXCHANGERS TECHNICAL DATA

Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary flow rate)



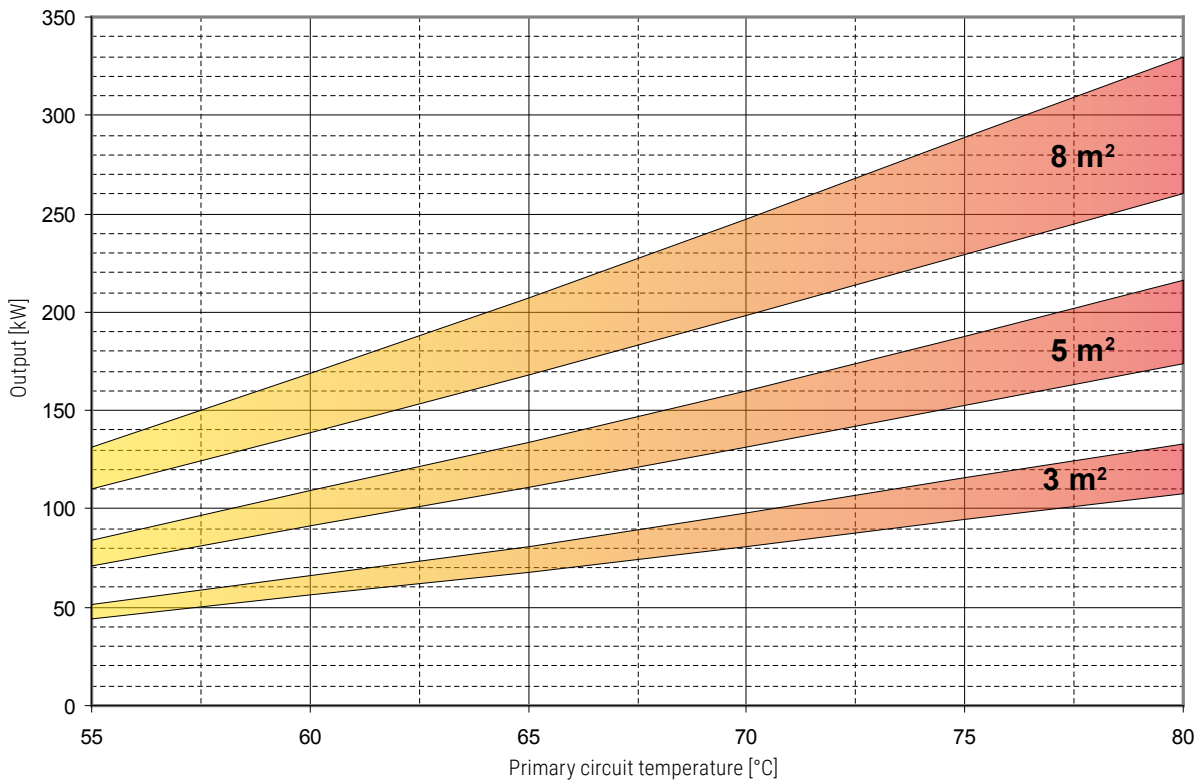
Extractable heat exchanger surface	0,5 m ²		0,75 m ²		1 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	2	1	3	1,5	4	2



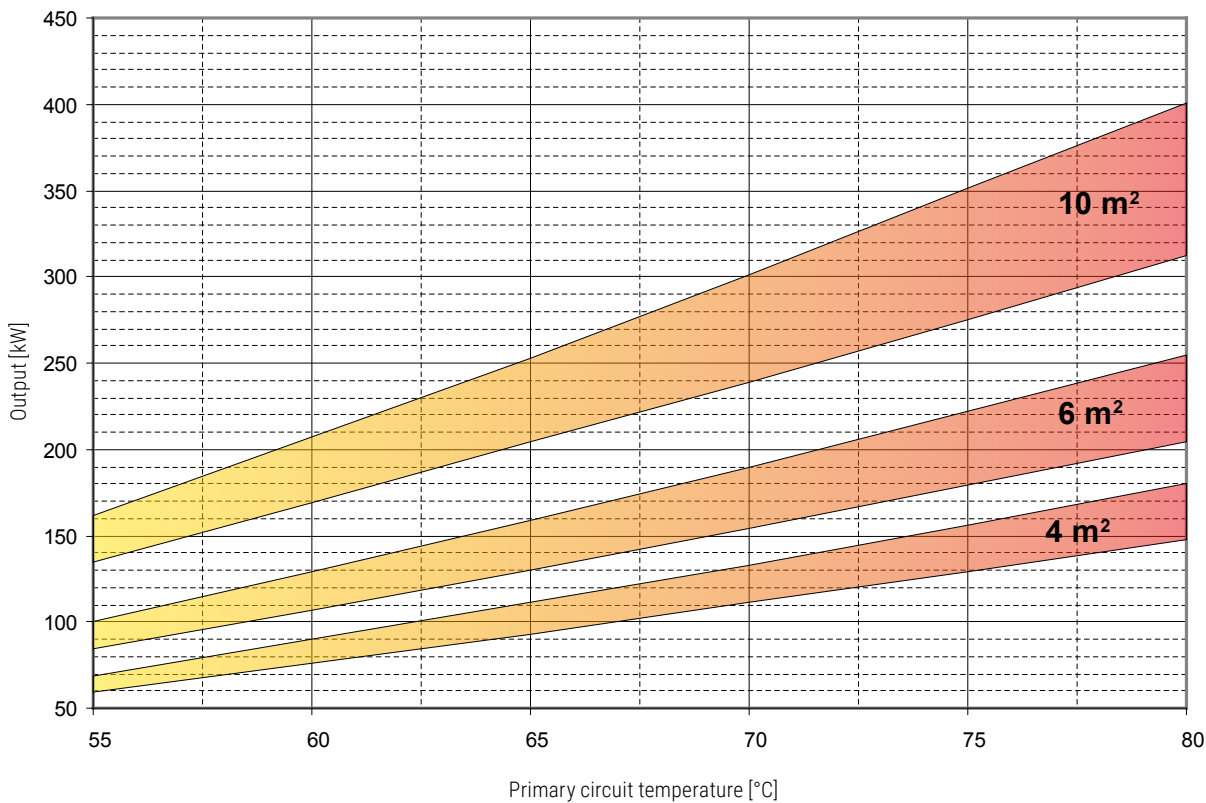
Extractable heat exchanger surface	1,5 m ²		2 m ²	
	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	6	3	10	5

EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

HEAT EXCHANGERS TECHNICAL DATA



Extractable heat exchanger surface	3 m ²		5 m ²		8 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	15	7,5	20	10	20	10



Extractable heat exchanger surface	4 m ²		6 m ²		10 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	20	10	20	10	20	10