

# EXTRA 1 COMPACT

POLYWARM® COATED 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

Mild steel Polywarm® coated (Attestation ACS - SSICA - EN 16421 - WRAS).

## 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 pipe.

## GASKET- FLANGE PLATE

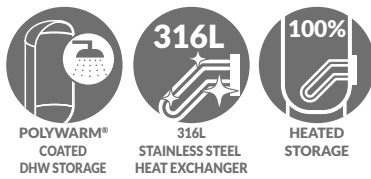
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE), max temperature up to 200°C. Mild steel exchanger head with anticorrosion treatment.

## WARRANTY

5 years (See general sales conditions and warranty)

## ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



## EXTRA 1 COMPACT WXC

316L STAINLESS STEEL HEAT EXCHANGER SURFACE



### DISMOUNTABLE SOFT FLEECE INSULATION

Model	Art. Nr.	[m <sup>2</sup> ]	ENERGY EFFICIENCY CLASS
1500	3072162360537	3	C
2000	3072162360538	4	C
2500	3072162360513	5	
3000	3072162360509	6	
4000	3072162360510	8	



## ACCESSORIES

### ELECTRIC IMMERSION HEATERS

Mod.	MONOPHASE		
	1,5 kW	2 kW	3 kW
	5240000000051	5240000000052	5240000000053
	Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
1500	443	793	595
2000	577	1033	775
2500	797	1428	1071
3000	874	1565	1173
4000	924	1655	1241

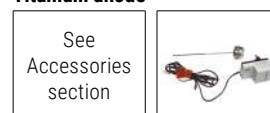
THREEPHASE				
4 kW	5 kW	6 kW	9 kW	12 kW
5240000000047	5240000000048	5240000000049	5240000000050	5240000000031
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]				
297	238	198	132	99
387	310	258	172	129
535	428	357	238	178
587	469	391	261	196
621	497	414	276	207

### HEAT MANAGER + electric immersion heater 1,5 kW + probe +3m cable

Art. Nr.	ELECTRIC IMMERSION HEATER
5240000000074	1,5 kW
5240000000075	2 kW
5240000000076	3 kW

See Accessories section

### Titanium anode



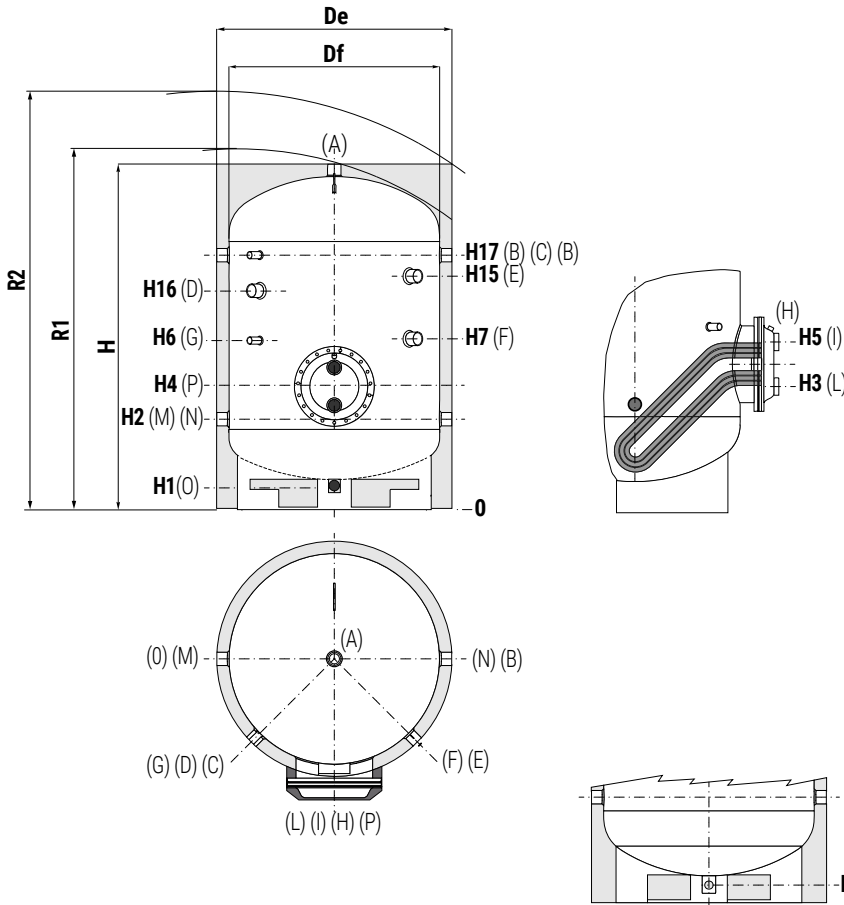
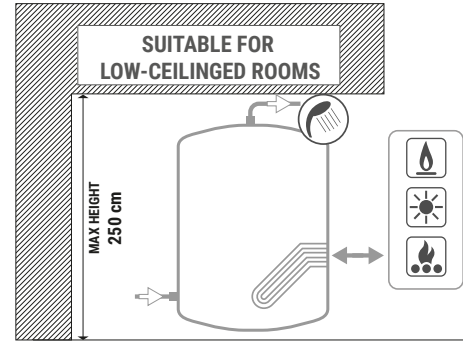
### Thermometer

Art. Nr.
5032240000107
5 units box

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STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
6 bar	90 °C	12 bar	110 °C



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

All models are equipped with a practical skirt support which facilitate the handling with transpallets and forklifts. Also, discharge piping already mounted to allow **total emptying**.

Model	Volume	Weight	De	DF	H	R1	R2	H1	H2
	[lt]	[kg]							
<b>1500</b>	1509	221	1360	1100	1992	2104	2420	91	467
<b>2000</b>	2012	300	1510	1250	2111	2251	2610	140	551
<b>2500</b>	2627	393	1500	1400	2125	2363	2610	114	570
<b>3000</b>	3029	472	1600	1500	2140	2410	2680	109	575
<b>4000</b>	3990	565	1700	1600	2415	2678	2960	94	580

Model	H4	H5	H6	H7	H15	H16	H17	P
	[mm]							
<b>1500</b>	692	782	867	942	//	1377	1557	Connections F Øi300/Øe380
<b>2000</b>	776	881	951	976	1566	1482	1641	Øi350/Øe430
<b>2500</b>	795	900	970	975	1585	1488	1660	Øi350/Øe430
<b>3000</b>	800	905	975	980	1600	1520	1675	Øi350/Øe430
<b>4000</b>	835	940	1010	1015	1855	1765	1920	Øi350/Øe430

# EXTRA 1 COMPACT

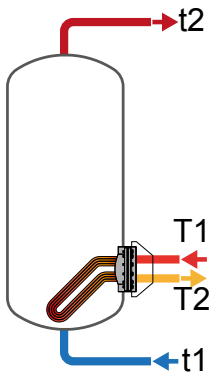
## HEAT EXCHANGERS TECHNICAL DATA



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	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	
1500	15	125	125	85	54	51	81	98	133	1256	2022	2428	3290
	7,5	152	152	105	67	44	68	81	108	1075	1687	2008	2684
2000	20	123	123	84	53	69	111	133	180	1699	2738	3288	4453
	10	148	148	103	65	59	93	111	148	1465	2302	2741	3665
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

LOWER HEAT EXCHANGER



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 <sub>2</sub> O]	[mbar]
	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
1500	15	1927	2484	2552	2695	2723	3765	4090	4779	2295	225,1
	7,5	1897	2428	2482	2594	2578	3497	3754	4294	589,6	57,8
2000	20	2573	3319	3411	3605	3649	5053	5493	6425	2996	293,8
	10	2534	3247	3320	3474	3462	4704	5056	5795	766,42	75,2
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

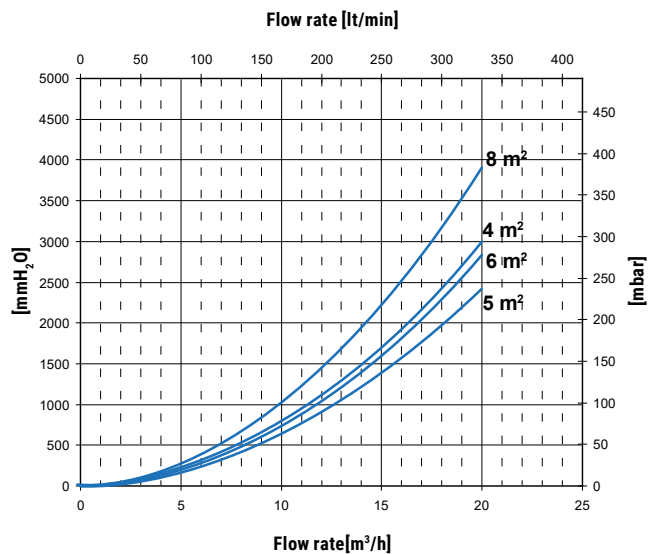
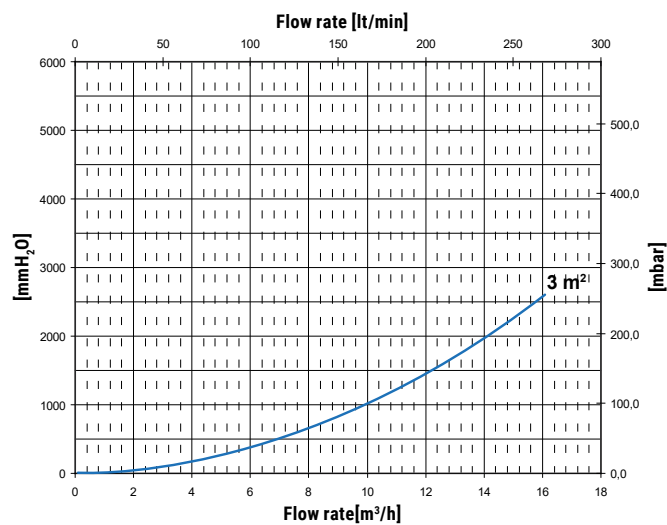
## MAXIMUM STORAGE EXPLOITATION WITH CURVED ANTILEGIONELLA® HEAT EXCHANGER



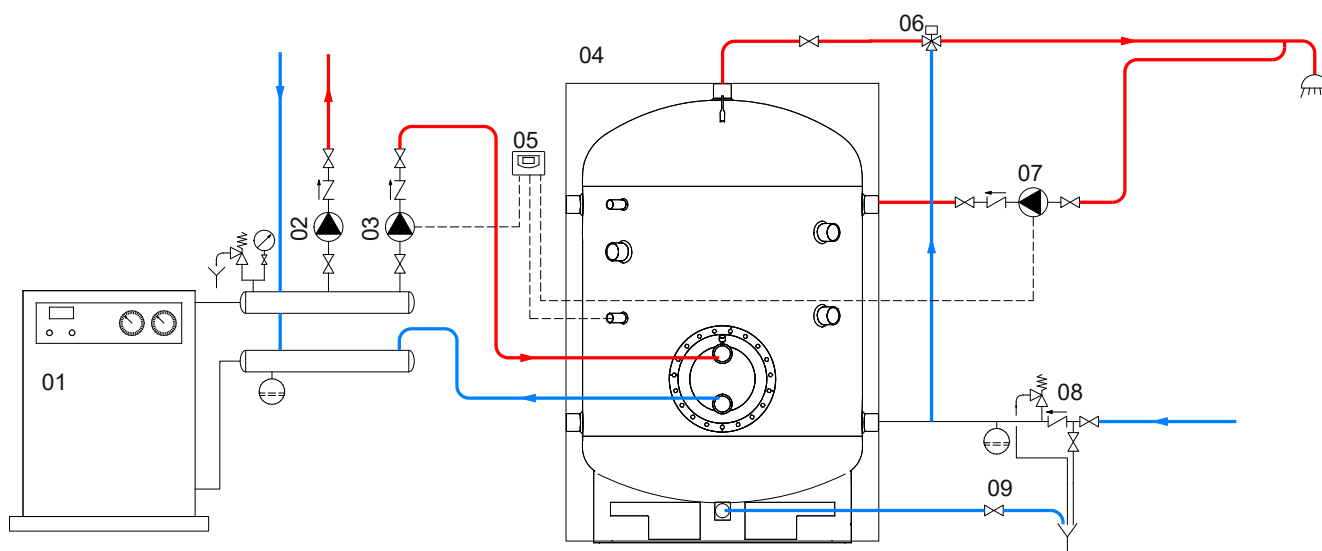
Model	Heated volume: Standard heat exchanger	Storage volume: Heat exchanger for 100% heated volume	Advantage in exploited volume	Advantage in percentage
	[lt]	[lt]	[lt]	[%]
1500	1224	1445	221	15%
2000	1684	1978	294	15%
2500	1905	2315	410	18%
3000	2438	2921	483	17%
4000	3113	3769	656	17%

# EXTRA 1 COMPACT

## HEAT EXCHANGERS PRESSURE DROP



### EXAMPLE OF INSTALLATION WITH EXTRA 1 COMPACT



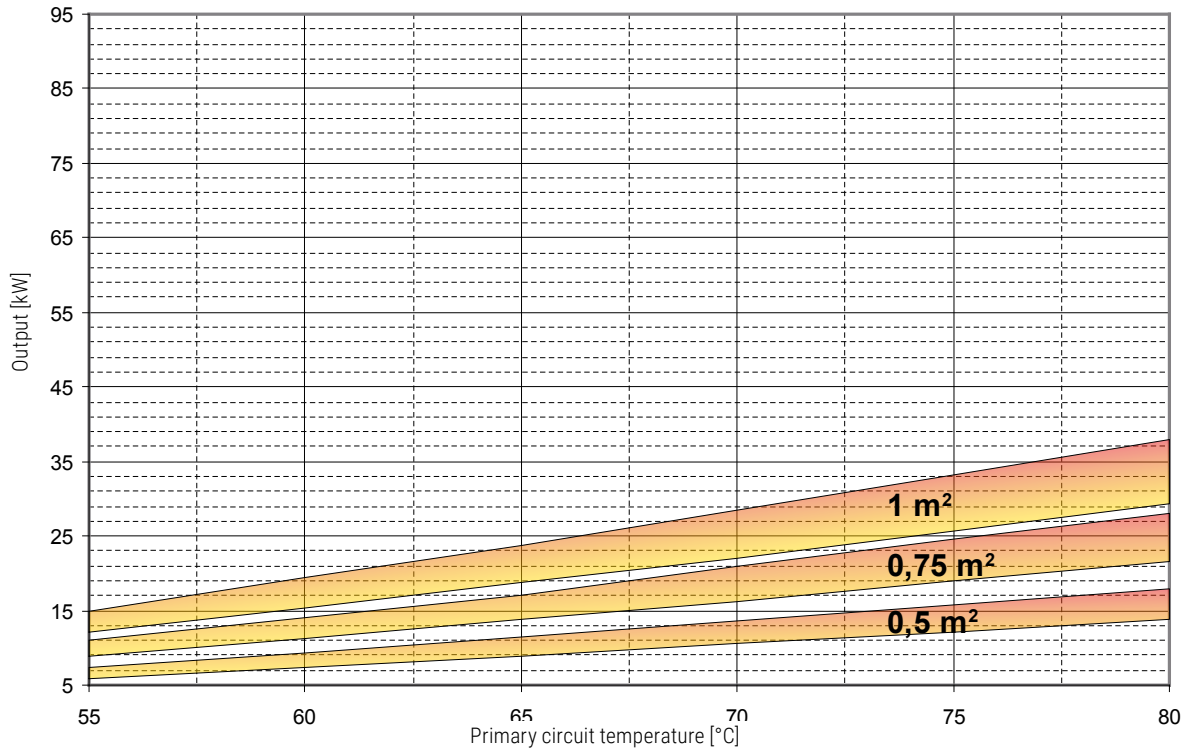
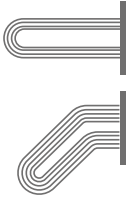
01	Generator	04	EXTRA 1 COMPACT	07	D.H.W. recirculation group
02	Heating system circulation group	05	Electronic Control/thermostat	08	Hydraulic safety group
03	D.H.W. circulation group	06	Thermostatic mixing valve	09	Blowdown valve

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

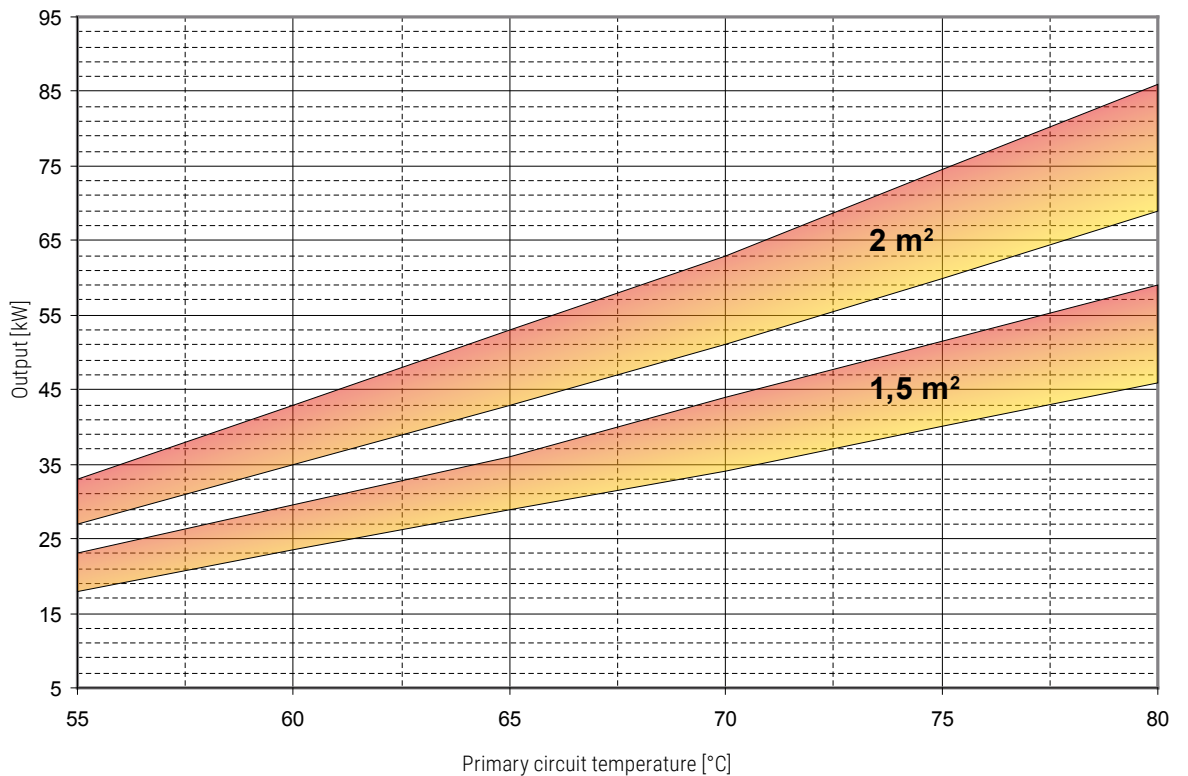
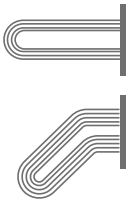
# EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

## 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)



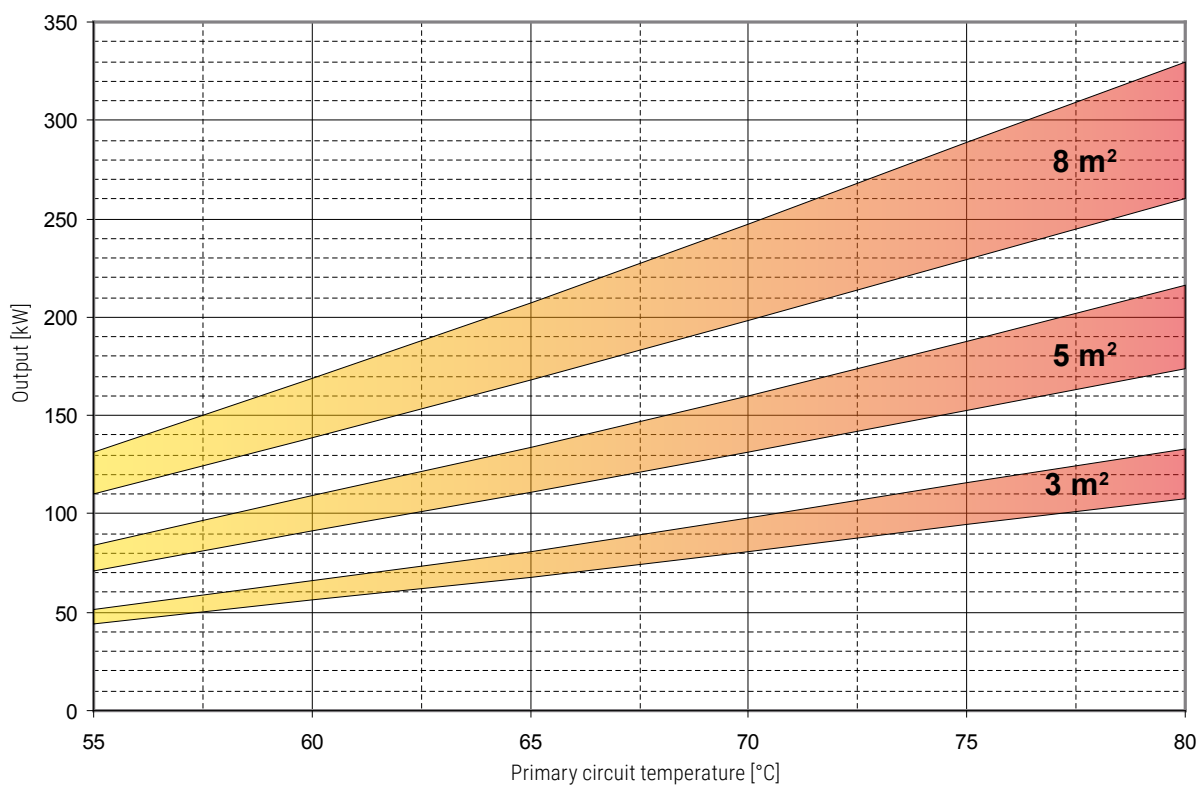
Extractable heat exchanger surface	0,5 m <sup>2</sup>		0,75 m <sup>2</sup>		1 m <sup>2</sup>	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	2	1	3	1,5	4	2



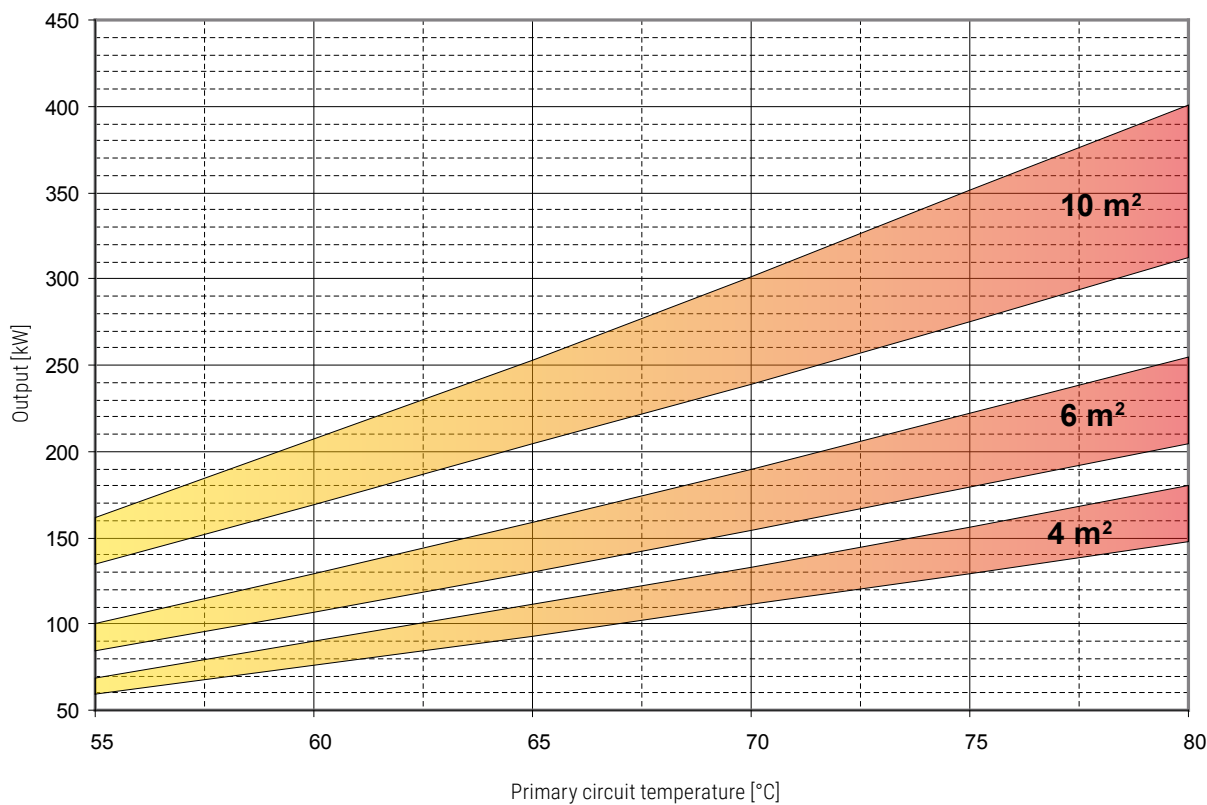
Extractable heat exchanger surface	1,5 m <sup>2</sup>		2 m <sup>2</sup>	
	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	6	3	10	5

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

## HEAT EXCHANGERS TECHNICAL DATA



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



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