

# EXTRA 2 INOX COMPACT

STAINLESS STEEL 316L CALORIFIER, SUITABLE FOR LOW-CEILINGED ROOMS,  
WITH 2 EXTRACTABLE STAINLESS STEEL HEAT EXCHANGERS



### 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:

N° 2 Stainless steel 316L Antilegionella® heat exchangers (upper exchanger is straight and the lower is 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

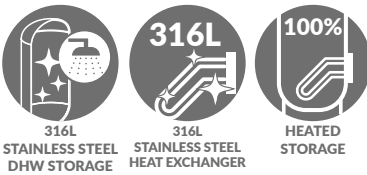
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Mild steel exchanger head with anticorrosion treatment.

### WARRANTY

5 years (See general sales conditions and warranty)

### ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



### EXTRA 2 COMPACT XXC

316L STAINLESS STEEL HEAT EXCHANGERS SURFACE

#### DISMOUNTABLE SOFT FLEECE INSULATION

Model	Art. Nr.	316L STAINLESS STEEL HEAT EXCHANGERS SURFACE	
		Lower	Upper
		[m <sup>2</sup> ]	
<b>2500</b>	3082052300211	5	5
<b>3000</b>	3082052300213	6	6
<b>4000</b>	3082052300215	8	8

## ACCESSORIES

### ELECTRIC IMMERSION HEATERS

Mod.	MONOPHASE			THREEPHASE				
	1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW	9 kW	12 kW
	5240000000051	5240000000052	5240000000053	5240000000047	5240000000048	5240000000049	5240000000050	5240000000031
	Ignition time from 10 °C to 45 °C with electric immersion heaters [min]							
	1428	1071	714	535	428	357	238	178
	1565	1173	782	587	469	391	261	196
	1655	1241	828	621	497	414	276	207

### Titanium anode (for stainless steel calorifiers)

See Accessories section



### Thermometer

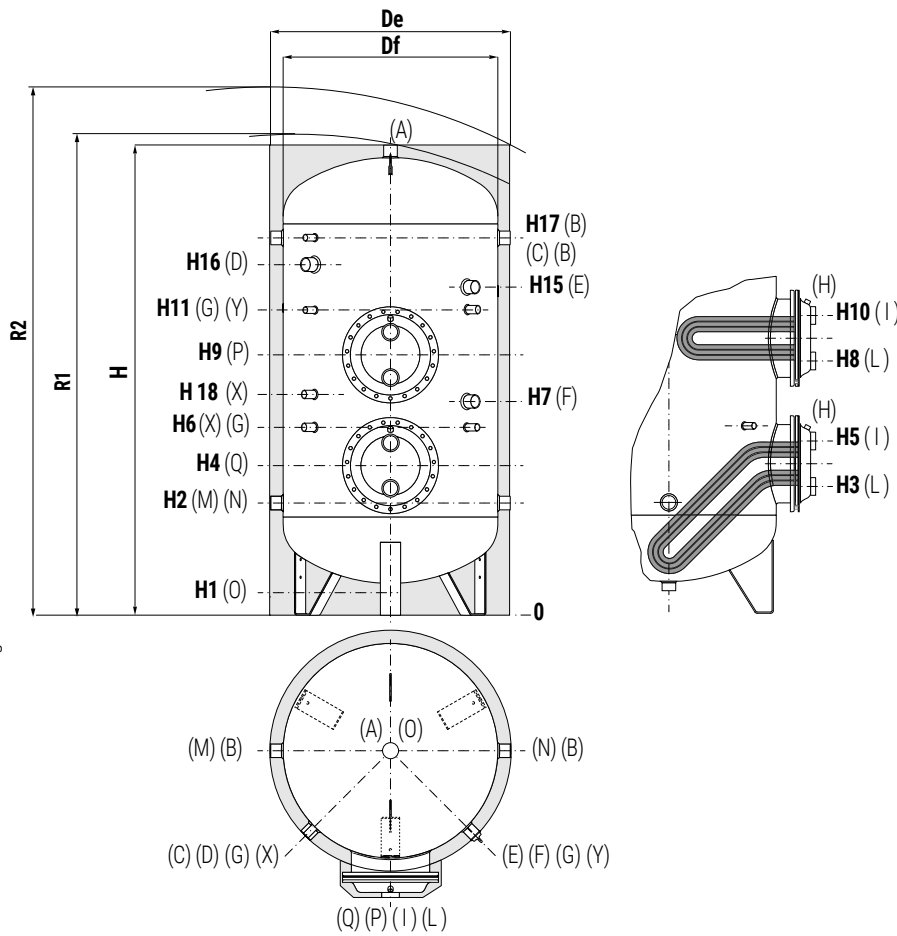
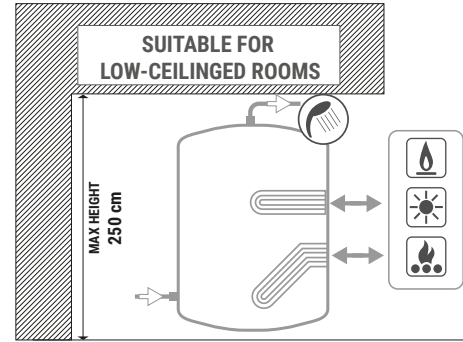
Art. Nr.
5032240000107
5 units box



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



<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/Titanium anode 1" 1/4 G F
<b>F</b>	Connection for magnesium anode/Titanium 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" G F
<b>P</b>	Flange
<b>X</b>	Connection for titanium anode 3/4" G F
<b>Y</b>	Connection for titanium anode 3/4" G F (only 4000)

Model	Volume	Weight	Df	De	H	R1	R2	H1	H2	H3	H4	H5	H6
	[lt]	[kg]											
<b>2500</b>	2635	450	1400	1500	2122	2251	2610	117	557	677	782	887	957
<b>3000</b>	3038	472	1500	1600	2131	2276	2670	106	556	736	841	946	956
<b>4000</b>	4002	620	1600	1700	2409	2555	2960	94	564	744	849	954	1024

Model	H7	H8	H9	H10	H11	H12	H15	H16	H17	H18	P Q
	[mm]										
<b>2500</b>	1077	1257	1362	1537	1432	1177	1552	1501	1657	1180	Øi350/Øe430
<b>3000</b>	1076	1256	1361	1466	1431	1176	1551	1500	1656	1180	Øi350/Øe430
<b>4000</b>	1144	1331	1436	1716	1611	1251	1809	1732	1904	1250	Øi350/Øe430

# EXTRA 2 INOX COMPACT

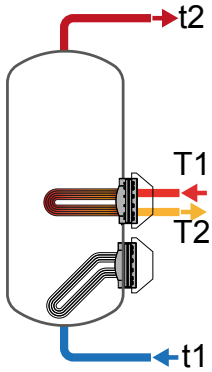
## HEAT EXCHANGERS TECHNICAL DATA



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.

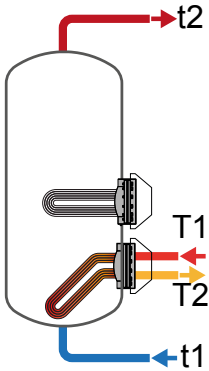
UPPER  
HEAT EXCHANGER



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	118	119	81	51	69	111	133	180	1699	2738	3288	4453
	10	145	146	101	65	59	93	111	148	1465	2302	2741	3665
3000	20	128	127	87	55	100	159	190	255	2461	3926	4694	6321
	10	456	157	110	70	84	130	154	204	2082	3224	3817	5053
4000	20	126	127	87	56	131	207	247	330	3236	5121	6105	8168
	10	159	161	112	73	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 <sub>2</sub> O]	[mbar]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
2500	20	2927	3761	3852	4046	4003	5495	5935	6867	2436	238,9
	10	2888	3688	3761	3915	3815	5146	5497	6236	624	61,2
3000	20	3748	4827	4955	5226	5307	7314	7928	9230	2836	278,1
	10	3685	4710	4809	5015	5004	6752	7226	8215	723	70,9
4000	20	4842	6232	6396	6740	6892	9475	10263	11913	3896	382,1
	10	4756	6070	6196	6452	6477	8699	9301	10533	989	97,0

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	59	59	40	25	84	134	160	216	2069	3313	3969	5358
	10	71	72	50	32	71	111	131	174	1758	2738	3249	4318
3000	20	71	72	49	31	100	159	190	255	2465	3931	4698	6325
	10	88	89	62	40	84	130	154	204	2086	3229	3821	5057
4000	20	71	72	50	32	131	207	247	330	3242	5126	6112	8179
	10	89	90	63	41	110	168	198	260	2723	4167	4909	6448

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		
2500	20	1652	2186	2296	2527	2963	4285	4809	5921	2314	226,9
	10	1600	2091	2176	2354	2714	3825	4233	5089	592	58,1
3000	20	2303	3021	3149	3420	3865	5511	6124	7426	2745	269,2
	10	2240	2904	3003	3209	3561	4949	5423	6411	700	68,6
4000	20	2972	3894	4059	4403	5026	7141	7930	9583	3701	362,9
	10	2886	3735	3858	4115	4610	6374	6967	8198	939	92,1

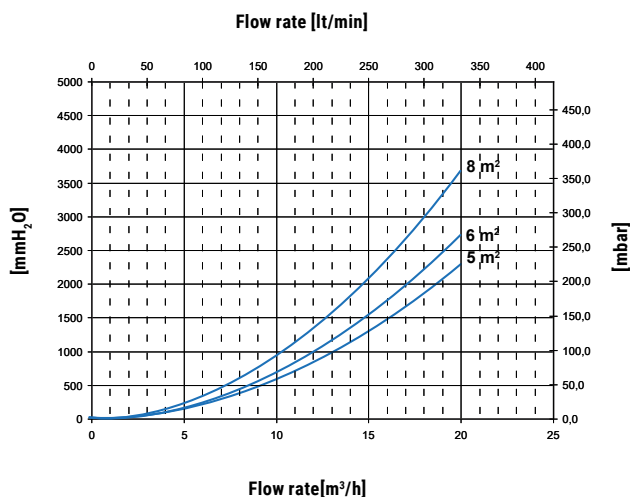
# EXTRA 2 INOX COMPACT

## UPPER HEAT EXCHANGERS PRESSURE DROP



Upper heat exchangers surface

	[m <sup>2</sup> ]
<b>2500</b>	5
<b>3000</b>	6
<b>4000</b>	8

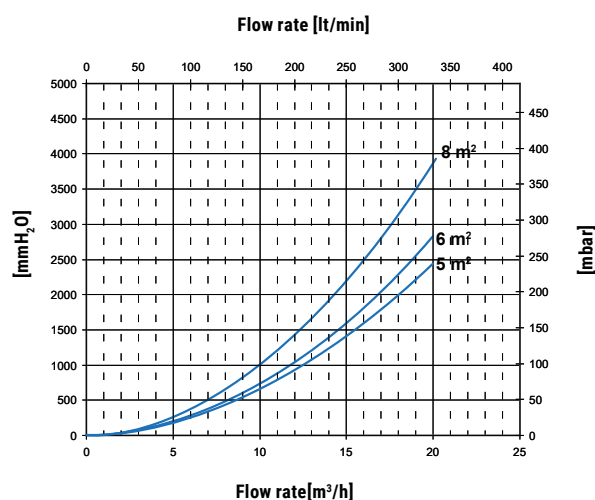


## LOWER HEAT EXCHANGERS PRESSURE DROP (ANTILEGIONELLA®)

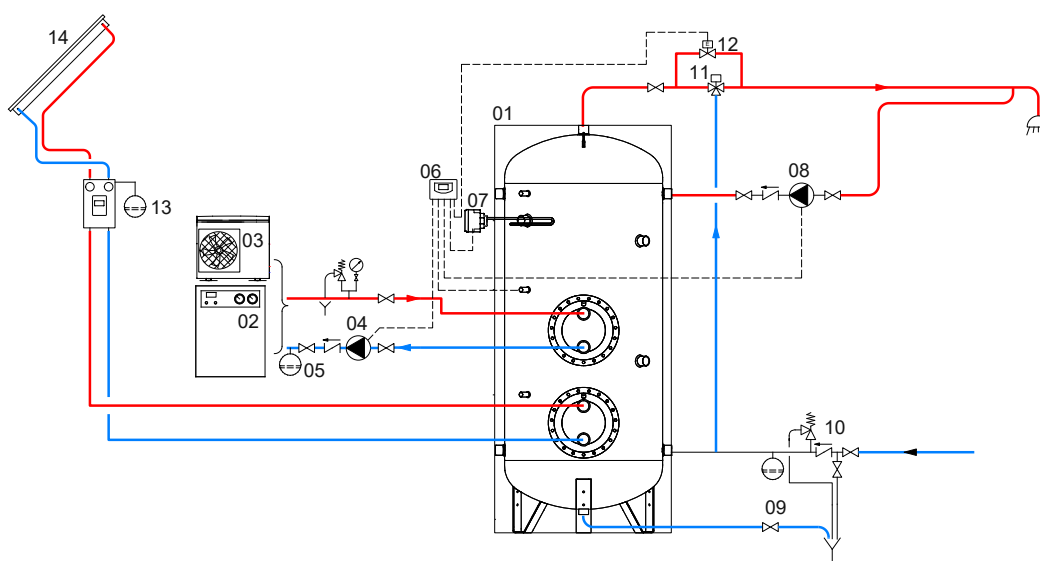


Lower heat exchanger surface

	[m <sup>2</sup> ]
<b>2500</b>	5
<b>3000</b>	6
<b>4000</b>	8



## EXAMPLE OF INSTALLATION WITH EXTRA 2 INOX COMPACT



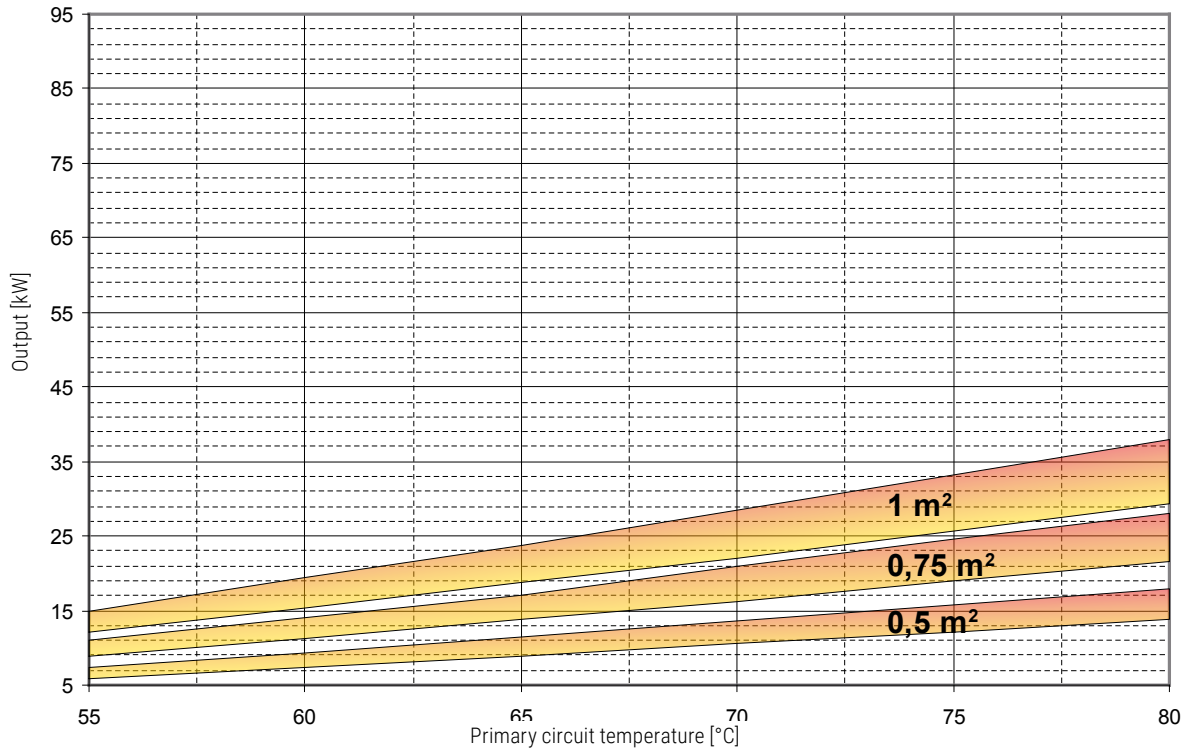
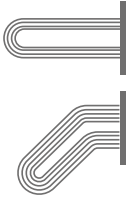
1	Extra 2 INOX COMPACT	5	Expansion vessel	9	Blowdown valve	13	Solar system circulation group
2	Generator	6	Electronic Control/thermostat	10	Hydraulic safety group	14	Solar panels
3	Generator (Heat pump)	7	Electric immersion heater (optional)	11	Thermostatic mixing valve		
4	Circulation group	8	D.H.W. recirculation group	12	By-pass solenoid valve		

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

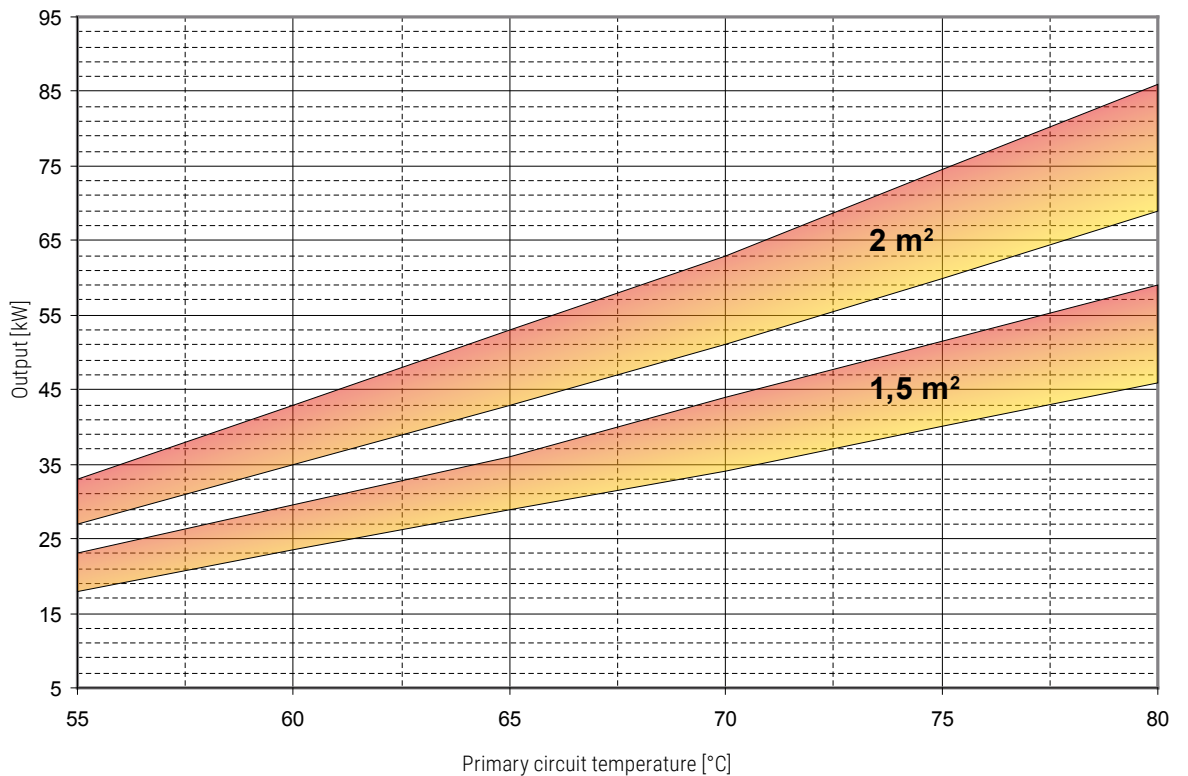
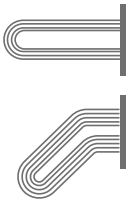
# EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

## 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)



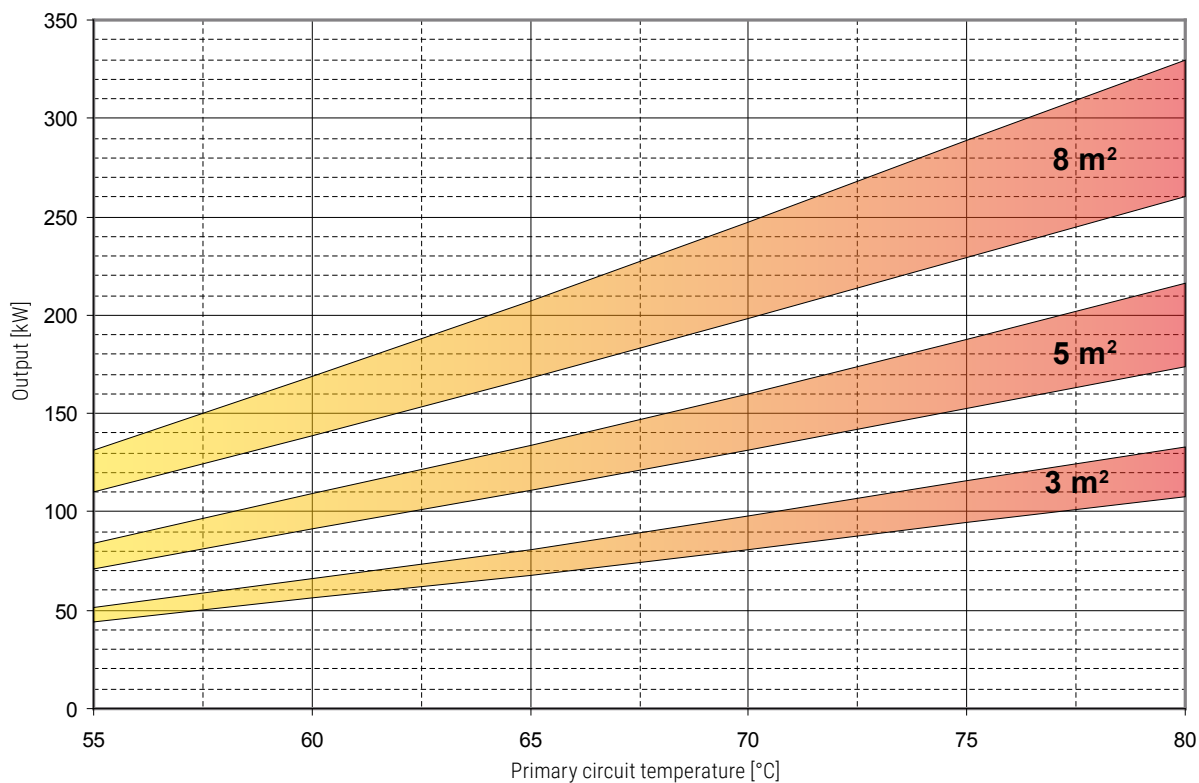
Extractable heat exchanger surface	0,5 m <sup>2</sup>		0,75 m <sup>2</sup>		1 m <sup>2</sup>	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	2	1	3	1,5	4	2



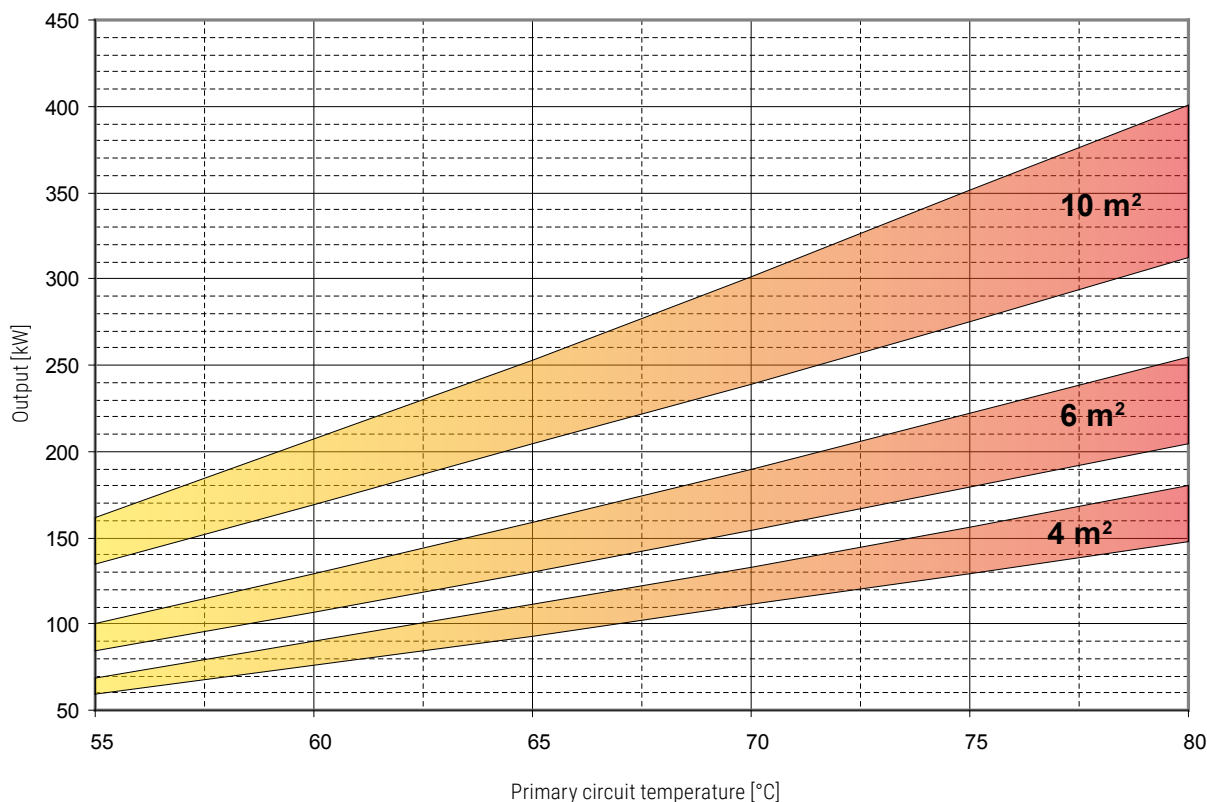
Extractable heat exchanger surface	1,5 m <sup>2</sup>		2 m <sup>2</sup>	
	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	6	3	10	5

# 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