



# SPHERA-T HYBRID

## SRHM-TH + MDAN-XMi 2.1÷8.1

### technical data

#### Size – SRHM-TH + MDAN-XMi

Unit for radiant panels		2.1	3.1	4.1	5.1	6.1	7.1	8.1
<b>A7/W35</b>								
▶ Heating capacity	kW	4,23	6,33	8,09	9,69	12,2	14,2	15,8
Total power input	kW	0,81	1,31	1,77	2,11	2,54	2,91	3,28
COP (EN 14511:2018)	-	5,21	4,83	4,57	4,59	4,79	4,87	4,81
<b>A2/W35</b>								
▶ Heating capacity	kW	4,02	5,44	6,35	7,66	9,13	10,8	11,6
Total power input	kW	1,16	1,45	1,74	2,08	2,6	3,34	3,55
COP (EN 14511:2018)	-	3,46	3,75	3,65	3,68	3,52	3,23	3,26
<b>A-7/W35</b>								
▶ Heating capacity	kW	4,78	5,68	6,09	7,69	9,76	11,3	12,1
Total power input	kW	1,56	1,95	2,18	2,8	3,32	3,9	4,14
COP (EN 14511:2018)	-	3,06	2,91	2,79	2,75	2,94	2,9	2,91
<b>A35/W18</b>								
▶ Cooling capacity	kW	4,47	6,19	8,01	10,2	11,4	14,3	15,4
Total power input	kW	0,8	1,29	1,81	2,03	2,59	3,1	3,56
EER (EN 14511:2018)	-	5,58	4,8	4,43	5	4,4	4,63	4,33
<b>Terminal units</b>								
<b>A7/W45</b>								
▶ Heating capacity	kW	4,06	6	7,29	9,77	12,2	14,6	16,4
Total power input	kW	1,1	1,65	2,15	2,7	3,35	3,86	4,42
COP (EN 14511:2018)	-	3,69	3,64	3,39	3,62	3,65	3,79	3,72
<b>A2/W45</b>								
▶ Heating capacity	kW	4,04	5,52	6,74	7,3	9,16	11,3	11,7
Total power input	kW	1,32	1,83	2,39	2,57	3,32	3,99	4,3
COP (EN 14511:2018)	-	3,07	3,02	2,82	2,83	2,76	2,83	2,71
<b>A-7/W45</b>								
▶ Heating capacity	kW	3,98	4,96	5,54	8,69	9,31	11,1	11,3
Total power input	kW	1,69	2,08	2,51	3,84	4,25	4,94	5,24
COP (EN 14511:2018)	-	2,36	2,38	2,2	2,26	2,19	2,24	2,16
<b>A35/W7</b>								
▶ Cooling capacity	kW	4,34	6,24	7,57	9,52	11,3	14,2	15,5
Total power input	kW	1,27	2,05	2,73	3,2	4,25	5,14	5,71
EER (EN 14511:2018)	-	3,42	3,05	2,77	2,97	2,67	2,75	2,72
ESEER	-	4,82	4,58	3,85	3,57	4,32	4,07	4,02
<b>Radiators</b>								
<b>A7/W55</b>								
▶ Heating capacity	kW	3,96	5,43	6,66	8,87	10,3	13,1	14,8
Total power input	kW	1,34	1,82	2,45	3,27	3,86	4,4	5,37
COP (EN 14511:2018)	-	2,94	2,99	2,72	2,72	2,66	2,98	2,75
<b>A2/W55</b>								
▶ Heating capacity	kW	3,52	4,97	6,4	7,84	7,83	10,8	10,9
Total power input	kW	1,43	1,99	2,72	3,49	3,5	4,54	4,65
COP (EN 14511:2018)	-	2,46	2,5	2,35	2,25	2,24	2,38	2,35
<b>A-7/W55</b>								
▶ Heating capacity	kW	3,15	4,49	5,09	7,85	7,96	9,96	10,3
Total power input	kW	1,8	2,39	2,85	4,58	4,56	5,81	5,7
COP (EN 14511:2018)	-	1,75	1,88	1,79	1,71	1,74	1,71	1,81
Type of gas	(1)	G20-G30-G31						
Nominal heat flow-rate	kW	24	24	24	24	24	24	24
Minimal heat flow-rate	kW	2,9						
Water flow-rate (User Side)	(2) l/s	0,2	0,3	0,39	0,47	0,56	0,66	0,74
Useful pump discharge head	kPa	50	50	47	42	54	49	42
Domestic hot water storage	l	280	280	280	280	280	280	280
Solar heat exchanger capacity	W/K	2703	2703	2703	3186	3186	3186	3186
Power supply	V	230/1/50	230/1/50	230/1/50	230/1/50	380-400/3/50	380-400/3/50	380-400/3/50
Sound pressure level (1m) outdoor unit	dB(A)	46	48	50	52	54	55	55
Min inlet air temperature (W.B.)	°C	-20	-20	-20	-20	-20	-20	-20
Max. leaving water temperature	°C	60	60	60	60	60	60	60

(1) G20: Methane gas 100%, standard; G30 / G31: LPG gas, a separate accessory is supplied for converting the boiler to LPG

(2) A7/W35 internal exchanger water 30/35°C; external air temperature 7°C D.B./ 6°C W.B.

Performances according to EN 14511:2018

A7/W35 internal exchanger water 30/35°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W35 internal exchanger water 30/35°C; external air temperature 2°C D.B./ 1°C W.B.

A-7/W35 internal exchanger water 30/35°C; external air temperature -7°C D.B./ -8°C W.B.

A7/W45 internal exchanger water 40/45°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W45 internal exchanger water 40/45°C; external air temperature 2°C D.B./ 1°C W.B.

A-7/W45 internal exchanger water 40/45°C; external air temperature -7°C D.B./ -8°C W.B.

A7/W55 internal exchanger water 50/55°C; external air temperature 7°C D.B./ 6°C W.B.

A2/W55 internal exchanger water 50/55°C; external air temperature 2°C D.B./ 1°C W.B.

A-7/W55 internal exchanger water 50/55°C; external air temperature -7°C D.B./ -8°C W.B.

A35/W18 internal exchanger water 23/18°C; external air temperature 35°C

A35/W7 internal exchanger water 12/7°C; external air temperature 35°C

Refrig. R-410A



ELFOControl<sup>3</sup>EVO



Full Inverter DC



## Two-section air-water reversible heat pump with integration boiler

### ErP

#### Size – SRHM-TH + MDAN-XMi

		2.1	3.1	4.1	5.1	6.1	7.1	8.1
ErP Classe energetica di Sistema - Clima MEDIO - W55	(1)	A++	A++	A++	A++	A++	A++	A++
ErP Space Heating Energy Class - AVERAGE Climate - W55	(2)	A++	A++	A++	A++	A++	A++	A++
ErP Domestic Hot Water Energy Class	(3)	A	A	A	A	A	A	A
ErP Domestic Hot Water Profile	(4)	XL	XL	XL	XL	XL	XL	XL

The Product is compliant with the ErP (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤ 70 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤ 400 kW at specified reference conditions)

(1) Seasonal Space Heating Energy Efficiency Class of the package according to Commission delegated Regulation (EU) No 811/2013

(2) Seasonal Space Heating Energy Efficiency Class according to Commission delegated Regulation (EU) No 811/2013. W = Water outlet temperature (°C)

(3) Water Heating Energy Efficiency Class according to Commission delegated Regulation (EU) No 811/2013

(4) Considered Load profile for the definition of Domestic Hot Water Energy Class according to Commission delegated Regulation (EU) No 811/2013. Class of the package with ELFOControl<sup>3</sup> EVO

### accessories

#### Size – SRHM-TH + MDAN-XMi

		2.1	3.1	4.1	5.1	6.1	7.1	8.1
Basic configuration (230/1/50)		std	std	std	std	std	std	std
Basic configuration (400/3/50)		-	-	-	-	optional	optional	optional

**SOLX** Drain-back solar integration for domestic hot water

**ACS280X** Auxiliary domestic hot water storage

**KTCGPLX** Conversion kit boiler from methane to LPG

**HIDTI5<sup>2</sup>BX** Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. White

**HIDTI5<sup>2</sup>NX** Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Black

**AMRX** Rubber antivibration mounts

Accessories whose code ends with "X" are separately supplied.

**AL12X** Power supply unit for HIDTI52 thermostats and HID-UR sensor

**KAS80X** Suction and exhaust fittings 80 mm diameter

**KSDFX** Twin Pipe Flue System

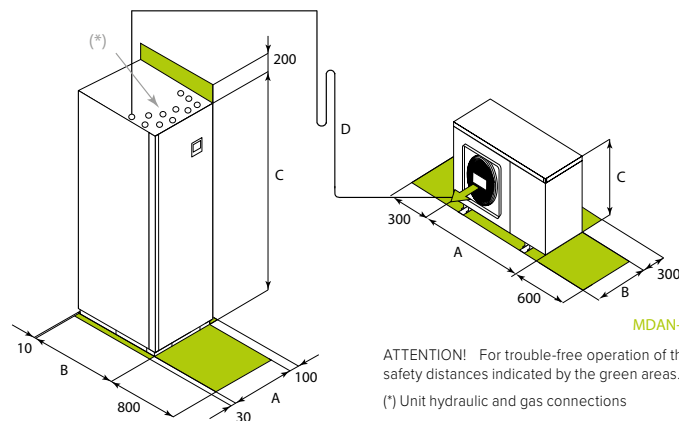
**KIR2HX** 2 zones: external kit, both at high temperature

**KIR2HLX** 2 zones: external kit, high temperature + low temperature (mixed)

**DTX** Auxiliary condensate collection tray

**KVE8X** 8 litres expansion tank kit

### dimensions



#### Size – SRHM-TH

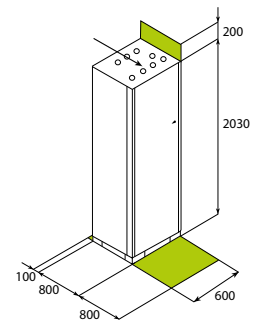
		A	B
A - Length	mm	600	600
B - Width	mm	800	800
C - Height	mm	2020	2020
Operating weight	kg	480	500

#### Size – MDAN-XMi

		2.1	3.1	4.1	5.1	6.1	7.1	8.1
A - Length	mm	960	960	1075	900	900	900	900
B - Width	mm	380	380	395	400	400	400	400
C - Height	mm	860	860	965	1327	1327	1327	1327
D - Max length of cooling lines	m	20	20	30	50	50	50	50
D - Max difference of cooling lines	m	15	15	15	25	25	25	25
Operating weight	kg	60	60	76	109	109	109	109

#### OPTIONAL ACCESSORY

Default water connections with SPHERA



#### AUXILIARY DOMESTIC HOT WATER STORAGE

Optional accessory for installations with domestic hot water consumption

Capacity: 280-litres