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40XPM

Nominal Cooling capacity: 6,45 - 12,5 kW

Nominal Heating capacity: 6,80 - 13,10 kW

The new XPower Plus 40XPM ducted systems provide optimised comfort combined with A-class energy performance in cooling and heating. The static pressure of the indoor unit (up to 150 Pa) makes it suitable for light commercial applications.

Features:

- Guaranteed cooling operation from $-15\text{ }^{\circ}\text{C}$ to $+46\text{ }^{\circ}\text{C}$ outdoor temperature.
- Heating performance even at $-15\text{ }^{\circ}\text{C}$ outdoor temperature.
- Suitable for applications that require up to 70 m distance between the indoor and the outdoor unit.
- V-shape coil for better efficiency and performance.
- Anti-bacterial filters as standard.
- Flexible installation: left or right piping connections without need of settings.
- Choice of wired or wireless controls.
- Possibility of left/right piping connections.
- The system uses the high-performance, non-ozone-depleting refrigerant R-410A – an ecological and environmentally safe choice.

- Advanced self-diagnosis tool for an automatic complete system check after installation and for routine maintenance monitoring. Detailed diagnosis with 32 check codes.
- Outdoor units use a twin rotary compressor. Two rotary compression cylinders, offset from each other by 180 degrees, and a DC brushless motor with the shaft in perfect alignment reduce vibration and noise and provide superior efficiency and performance.

Accessories:

- Programming options: My Comfort remote control
CRM Room Controller
CZM Zone Manager

Performance data

Indoor unit:	40XPM
Outdoor unit:	38XPS

		40XPM070	40XPM070	40XPM100	40XPM125
IN COOLING		38XPS065	38XPS070	38XPS100	38XPS125
Nominal cooling capacity	kW	6,45	6,7	10,0	12,5
Nominal sensible capacity	kW	5,7	5,9	8,9	9,1
Cooling range (min. - max.)	kW	0.85 - 7.01	1.81 - 8.32	3.40 - 12.50	3.41 - 14.70
Nominal power input	W	2010	2095	3115	4159
Power input range (min. - max.)	W	240-1920	360-2380	450-4560	550-4930
EER	W/W	3,21	3,21	3,21	3,01
Energy efficiency class		A	A	A	na
Annual energy consumption	kW/h	1005	1047,5	1557,5	--

IN HEATING					
Nominal heating capacity	kW	6,8	7,3	11,2	13,1
Heating range (min. - max.)	kW	0.85 - 8.88	1.83 - 8.54	3.59 - 13.87	3.70 - 16.06
Nominal power input	W	1850	2020	3102	3742
Power input range (min. - max.)	W	240-3050	380-3050	600-4900	690-5350
COP	W/W	3,61	3,61	3,61	3,50
Energy efficiency class		A	A	A	na

Physical data

Outdoor unit:		38XPS065	38XPS070	38XPS100	38XPS125
Compressor type		TWIN ROTARY	TWIN ROTARY	TWIN ROTARY	TWIN ROTARY
Refrigerant type		R-410A	R-410A	R-410A	R-410A
Air flow, cooling	l/s	783	742	1658	1767
Air flow, heating	l/s	783	742	1658	1767
Sound pressure level, cooling (1)	dB(A)	46	45	51	50
Sound power level, cooling	dB(A)	65	65	68	70
Sound pressure level, heating (1)	dB(A)	49	48	51	52
Sound power level, heating	dB(A)	68	68	69	70
Dimensions (HxWxD)	mm	820x900x320	820x900x320	1360x900x320	1360x900x320
Operating weight	kg	51	73	88	88

1) Sound pressure level in emispheric field at 4 m

Sound power

Sound power level Lw dB, cooling mode

Hz	CDU size	125	250	500	1000	2000	4000	8000	(A)
	65	66	63	63	60	55	52	51	65
	70	66	64	64	60	54	53	49	65
	100	70	66	68	63	56	56	49	68
	125	68	69	70	64	59	58	52	70

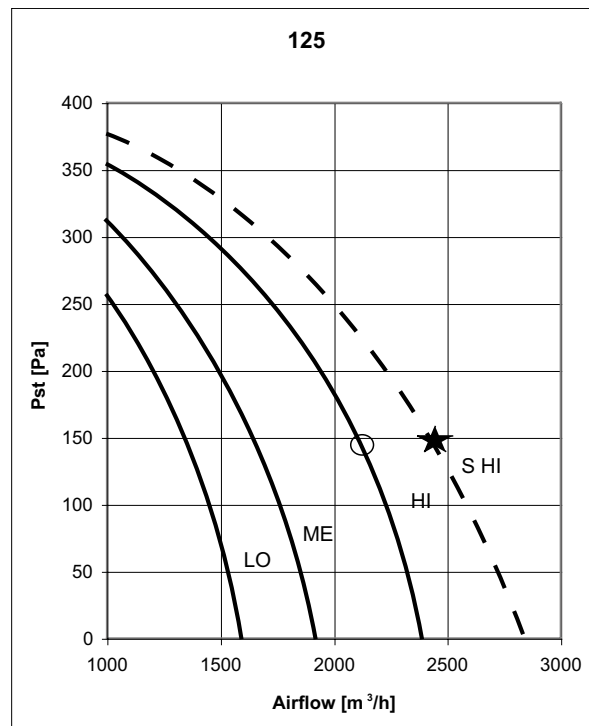
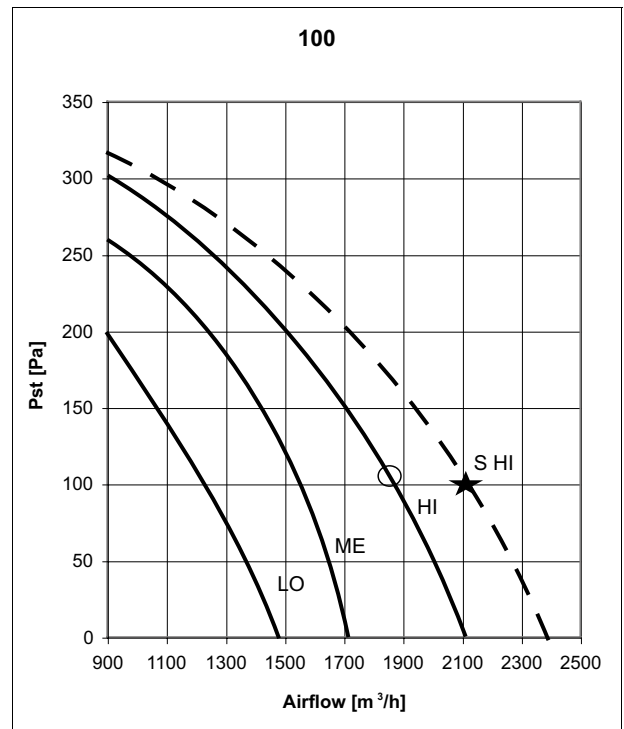
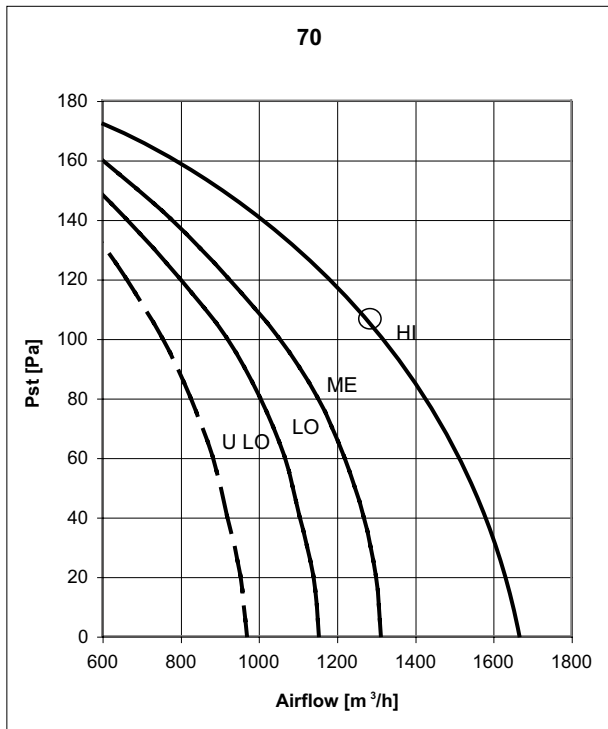
Sound power level Lw dB, heating mode

Hz	CDU size	125	250	500	1000	2000	4000	8000	(A)
	65	73	67	67	63	56	56	51	68
	70	70	68	66	63	57	56	53	68
	100	73	66	68	63	57	56	51	69
	125	70	68	69	64	60	57	51	70

Physical data

Indoor unit:		40XPM070	40XPM100	40XPM125
Dehumidification (at rated condition)	l/h	1,2	1,6	4,9
Air Flow (l/m/h)	l/s	290/325/350	334/416/499	420/480/590
Sound pressure level, cooling (1)	dB(A)	46/49/51	55/58/62	53/57/61
Sound power level, cooling	dB(A)	59/62/64	68/71/75	66/70/74
Sound pressure level, heating (1)	dB(A)	46/49/51	55/58/62	53/57/61
Sound power level, heating	dB(A)	59/62/64	68/71/75	66/70/74
Max. static pressure	Pa	See graph below		
Dimensions (HxWxD)	mm	385x650x670	385x650x670	385x870x670
Weight	kg	35	35	42

Maximum static pressure



Piping

Size		065	070	100	125
Connections type		Flare	Flare	Flare	Flare
Gas		5/8"	5/8"	5/8"	5/8"
Liquid		3/8"	3/8"	3/8"	3/8"
Maximum height difference	m	30	30	30	30
Maximum pipe length	m	30	50	70	70
Minimum pipe length	m	1	1	1	1
Additional refrigerant charge	g/m	40	40	40	40
Chargeless	m	20	30	30	30

Electrical data

Indoor unit:		40XPM070	40XPM070	40XPM100	40XPM125
Power supply	V-ph-Hz	230 -1 - 50	230 -1 - 50	230 -1 - 50	230 -1 - 50
Voltage range	V	198 - 264	198 - 264	198 - 264	198 - 264
Full load current	A	1,1	1,4	2,0	2,2
Running current	A	0,98	0,98	1,20	1,98
Power consumption	W	160	160	365	430
Connection wire size	mm ²	1	1	1	1
Power factor	%	0,9	0,9	0,9	0,9

Outdoor unit:		38XPS065	38XPS070	38XPS100	38XPS125
Power supply	V-ph-Hz	230 -1 - 50	230 -1 - 50	230 -1 - 50	230 -1 - 50
Voltage range	V	198 - 264	198 - 264	198 - 264	198 - 264
Full load current	A	14	15	22	22,8
Fuse rating*	A	15	25	25	25
Running current	A	9,7	9,7	14,4	18
Power consumption	W	1895	2020	2875	3723
Main power wire size	mm ²	2,5	2,5	2,5	2,5
Power factor	%	0,95	0,95	0,95	0,95

* Time delay fuse

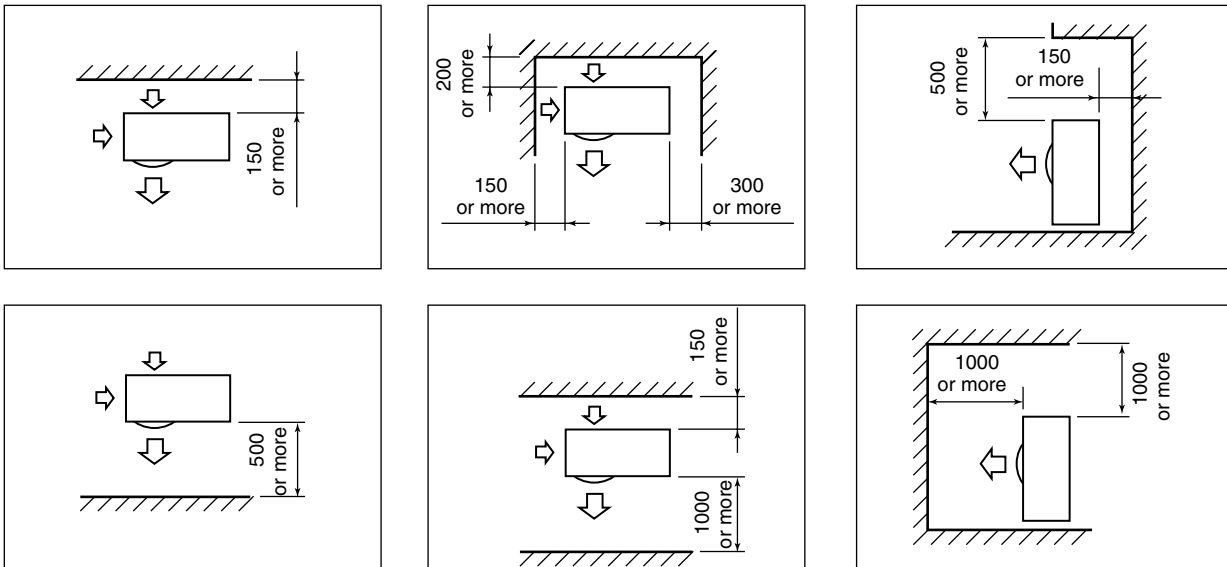
Clearances

		40XPM070	40XPM100	40XPM125
Top	mm	-	-	-
Bottom	mm	-	-	-
Front	mm	-	-	-
Back	mm	400	400	400
Left	mm	200	200	200
Right	mm	220	220	220

Outdoor unit clearances

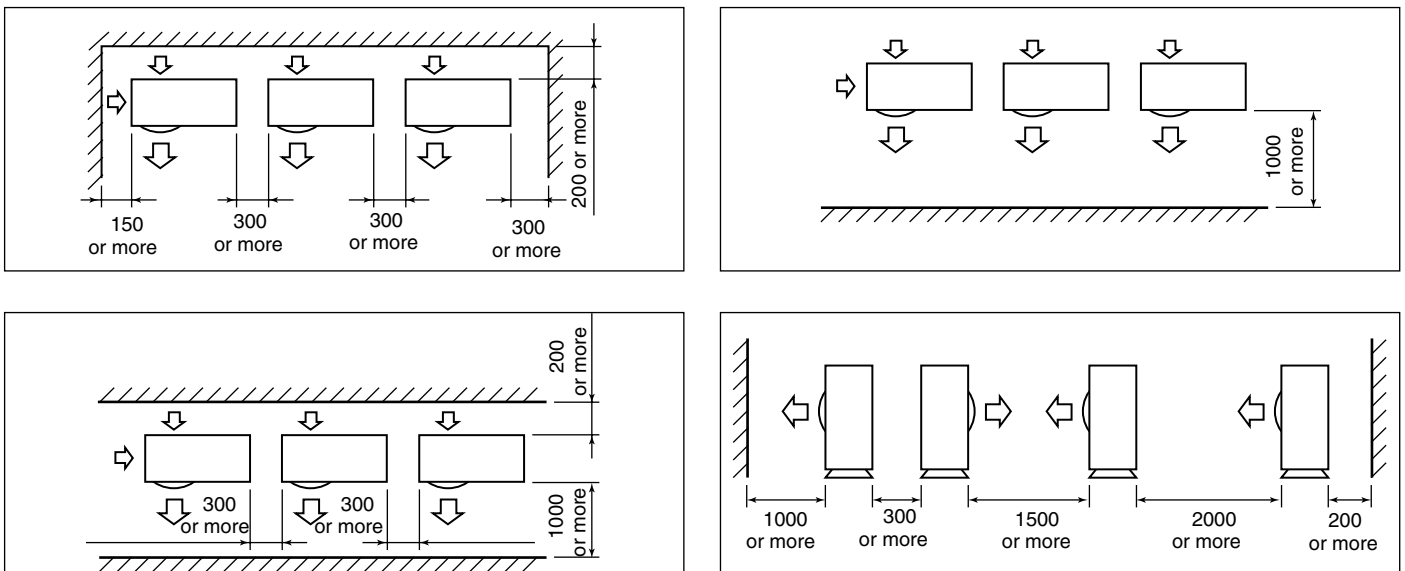
All sizes

Single installation



The height of the obstacle at both front and rear side should be lower than the height of the outdoor unit

Serial installation



The height of the obstacle at both front and rear side should be lower than the height of the outdoor unit

Operating limits

	Cooling mode	Heating mode
Maximum outdoor temperature	46°C	24°C db / 18°C wb
Maximum indoor temperature	32°C db / 23°C wb	27°C db
Minimum outdoor temperature	-15°C	-15°C db / -17°C wb
Minimum indoor temperature	21°C db / 15°C wb	20°C db

Sensible capacity tables

38XPS065 matched with 40XPM070

Unit size	Outdoor air temp. °C DB	Indoor air temperature																	
		14,0 °C WB 20,0 °C DB		15,0 °C WB 21,5 °C DB		16,0 °C WB 23,0 °C DB		17,0 °C WB 24,5 °C DB		18,0 °C WB 26,0 °C DB		19,0 °C WB 27,0 °C DB		20,0 °C WB 28,0 °C DB		22,0 °C WB 30,0 °C DB		24,0 °C WB 32,0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10	0,95	0,81	1,04	0,88	1,06	0,88	1,10	0,93	1,14	0,95	1,16	0,97	1,20	1,02	1,26	1,06	1,32	1,11	
12	0,95	0,79	1,02	0,86	1,06	0,88	1,08	0,93	1,12	0,95	1,16	0,97	1,18	1,00	1,26	1,06	1,32	1,11	
14	0,93	0,79	1,02	0,86	1,04	0,88	1,08	0,90	1,12	0,95	1,14	0,97	1,18	1,00	1,24	1,06	1,30	1,11	
16	0,93	0,79	1,02	0,86	1,04	0,88	1,08	0,90	1,10	0,93	1,14	0,97	1,18	1,00	1,24	1,04	1,30	1,11	
18	0,93	0,79	1,00	0,86	1,02	0,86	1,06	0,90	1,10	0,93	1,14	0,95	1,16	0,97	1,24	1,04	1,28	1,09	
20	0,91	0,77	1,00	0,84	1,02	0,86	1,06	0,88	1,10	0,93	1,12	0,95	1,16	0,97	1,22	1,04	1,28	1,09	
21	0,91	0,77	1,00	0,84	1,02	0,86	1,06	0,88	1,08	0,93	1,12	0,95	1,14	0,97	1,22	1,02	1,28	1,09	
23	0,91	0,77	0,97	0,84	1,00	0,84	1,04	0,88	1,08	0,90	1,10	0,93	1,14	0,95	1,20	1,02	1,26	1,06	
25	0,89	0,77	0,97	0,81	1,00	0,84	1,02	0,86	1,06	0,90	1,10	0,93	1,12	0,95	1,20	1,00	1,24	1,06	
27	0,89	0,75	0,95	0,81	0,97	0,84	1,02	0,86	1,06	0,88	1,08	0,90	1,12	0,95	1,18	1,00	1,22	1,04	
29	0,87	0,75	0,95	0,79	0,97	0,81	1,00	0,84	1,04	0,88	1,06	0,90	1,10	0,93	1,16	0,97	1,22	1,02	
31	0,85	0,72	0,93	0,79	0,95	0,81	1,00	0,84	1,02	0,86	1,06	0,88	1,08	0,90	1,14	0,97	1,20	1,02	
33	0,85	0,72	0,91	0,77	0,93	0,79	0,97	0,81	1,00	0,86	1,04	0,88	1,06	0,90	1,12	0,95	1,18	1,00	
35	0,83	0,70	0,89	0,77	0,91	0,77	0,95	0,81	1,00	0,84	6,5	5,7	1,04	0,88	1,10	0,93	1,16	0,97	
37	0,81	0,70	0,89	0,75	0,89	0,77	0,93	0,79	0,97	0,81	1,00	0,84	1,02	0,86	1,08	0,93	1,14	0,95	
39	0,79	0,68	0,87	0,72	0,89	0,75	0,91	0,77	0,95	0,79	0,97	0,84	1,00	0,86	1,06	0,90	1,12	0,95	

TC= Total Capacity [kW]

SHC= Sensible Heat Capacity [kW]

38XPS070 matched with 40XPM070

Unit size	Outdoor air temp. °C DB	Indoor air temperature																	
		14,0 °C WB 20,0 °C DB		15,0 °C WB 21,5 °C DB		16,0 °C WB 23,0 °C DB		17,0 °C WB 24,5 °C DB		18,0 °C WB 26,0 °C DB		19,0 °C WB 27,0 °C DB		20,0 °C WB 28,0 °C DB		22,0 °C WB 30,0 °C DB		24,0 °C WB 32,0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10	0,99	0,83	1,09	0,93	1,12	0,95	1,15	0,98	1,20	1,02	1,23	1,05	1,26	1,07	1,33	1,14	1,40	1,19	
12	1,00	0,84	1,09	0,93	1,11	0,95	1,15	0,98	1,18	1,00	1,23	1,03	1,26	1,07	1,33	1,14	1,40	1,19	
14	1,00	0,84	1,08	0,91	1,11	0,93	1,14	0,96	1,18	1,00	1,21	1,03	1,24	1,07	1,32	1,12	1,38	1,17	
16	0,99	0,84	1,08	0,91	1,09	0,93	1,14	0,96	1,17	1,00	1,21	1,02	1,24	1,05	1,32	1,12	1,38	1,17	
18	0,99	0,83	1,06	0,90	1,09	0,91	1,12	0,95	1,17	0,98	1,20	1,02	1,23	1,05	1,30	1,10	1,37	1,15	
20	0,97	0,83	1,06	0,90	1,08	0,91	1,12	0,95	1,15	0,98	1,18	1,00	1,23	1,03	1,29	1,10	1,35	1,15	
21	0,97	0,83	1,05	0,90	1,08	0,91	1,11	0,95	1,15	0,98	1,18	1,00	1,21	1,03	1,29	1,08	1,35	1,14	
23	0,96	0,81	1,05	0,88	1,06	0,90	1,09	0,93	1,14	0,96	1,17	1,00	1,20	1,02	1,27	1,08	1,33	1,14	
25	0,96	0,81	1,03	0,88	1,05	0,90	1,09	0,93	1,12	0,95	1,15	0,98	1,20	1,02	1,26	1,07	1,32	1,12	
27	0,94	0,79	1,02	0,86	1,03	0,88	1,08	0,91	1,11	0,95	1,14	0,96	1,18	1,00	1,24	1,05	1,30	1,10	
29	0,93	0,79	1,00	0,84	1,02	0,86	1,06	0,90	1,09	0,93	1,12	0,96	1,17	0,98	1,23	1,05	1,29	1,08	
31	0,91	0,77	0,99	0,84	1,02	0,86	1,05	0,88	1,08	0,91	1,11	0,95	1,14	0,96	1,21	1,03	1,27	1,07	
33	0,89	0,76	0,97	0,83	0,99	0,84	1,03	0,88	1,06	0,90	1,09	0,93	1,12	0,95	1,20	1,02	1,24	1,05	
35	0,88	0,76	0,96	0,81	0,97	0,83	1,02	0,86	1,05	0,88	6,7	5,9	1,11	0,95	1,17	1,00	1,23	1,03	
37	0,86	0,74	0,94	0,79	0,96	0,81	0,99	0,84	1,03	0,88	1,06	0,90	1,09	0,91	1,15	0,98	1,20	1,02	
39	0,85	0,72	0,93	0,77	0,94	0,79	0,97	0,83	1,00	0,84	1,03	0,88	1,06	0,90	1,12	0,95	1,18	1,00	

TC= Total Capacity [kW]

SHC= Sensible Heat Capacity [kW]

Sensible capacity tables

38XPS100 matched with 40XPM100

Unit size	Outdoor air temp. °C DB	Indoor air temperature																	
		14,0 °C WB 20,0 °C DB		15,0 °C WB 21,5 °C DB		16,0 °C WB 23,0 °C DB		17,0 °C WB 24,5 °C DB		18,0 °C WB 26,0 °C DB		19,0 °C WB 27,0 °C DB		20,0 °C WB 28,0 °C DB		22,0 °C WB 30,0 °C DB		24,0 °C WB 32,0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10		0,94	0,82	1,02	0,86	1,04	0,87	1,07	0,91	1,11	0,93	1,14	0,93	1,18	0,93	1,25	0,92	1,30	0,90
12		0,93	0,81	1,01	0,85	1,03	0,86	1,07	0,90	1,10	0,92	1,14	0,92	1,17	0,92	1,24	0,91	1,29	0,88
14		0,93	0,81	1,00	0,85	1,02	0,86	1,06	0,90	1,10	0,92	1,13	0,92	1,16	0,92	1,23	0,91	1,29	0,88
16		0,92	0,80	1,00	0,84	1,02	0,85	1,05	0,88	1,09	0,91	1,12	0,91	1,15	0,91	1,22	0,90	1,28	0,87
18		0,91	0,80	0,99	0,84	1,01	0,85	1,04	0,87	1,08	0,91	1,11	0,90	1,14	0,90	1,21	0,88	1,27	0,87
20		0,91	0,79	0,98	0,83	1,00	0,84	1,04	0,87	1,07	0,90	1,10	0,90	1,13	0,90	1,20	0,88	1,26	0,86
21		0,90	0,79	0,98	0,83	1,00	0,84	1,03	0,86	1,07	0,90	1,10	0,88	1,13	0,88	1,20	0,87	1,25	0,86
23		0,89	0,78	0,97	0,82	0,99	0,83	1,02	0,86	1,06	0,88	1,09	0,88	1,12	0,87	1,18	0,87	1,24	0,85
25		0,88	0,77	0,96	0,81	0,98	0,82	1,01	0,85	1,04	0,87	1,08	0,87	1,11	0,87	1,17	0,86	1,22	0,84
27		0,87	0,77	0,94	0,80	0,96	0,81	1,00	0,84	1,03	0,86	1,06	0,86	1,09	0,86	1,16	0,85	1,21	0,83
29		0,86	0,76	0,93	0,79	0,95	0,80	0,98	0,83	1,02	0,85	1,05	0,85	1,08	0,84	1,14	0,84	1,19	0,82
31		0,85	0,74	0,92	0,78	0,94	0,79	0,97	0,82	1,00	0,84	1,03	0,83	1,06	0,83	1,13	0,83	1,18	0,81
33		0,84	0,73	0,90	0,77	0,92	0,78	0,96	0,80	0,99	0,82	1,02	0,82	1,05	0,82	1,11	0,81	1,16	0,80
35		0,82	0,71	0,89	0,76	0,91	0,77	0,94	0,79	0,97	0,81	1,00	0,81	1,03	0,81	1,09	0,80	1,14	0,79
37		0,81	0,70	0,87	0,73	0,89	0,74	0,92	0,78	0,95	0,80	0,98	0,80	1,01	0,79	1,07	0,79	1,12	0,77
39		0,79	0,69	0,85	0,72	0,87	0,73	0,90	0,76	0,93	0,78	0,96	0,78	0,99	0,78	1,05	0,77	1,09	0,76

TC= Total Capacity [kW]
SHC= Sensible Heat Capacity [kW]

38XPS125 matched with 40XPM125

Unit size	Outdoor air temp. °C DB	Indoor air temperature																	
		14,0 °C WB 20,0 °C DB		15,0 °C WB 21,5 °C DB		16,0 °C WB 23,0 °C DB		17,0 °C WB 24,5 °C DB		18,0 °C WB 26,0 °C DB		19,0 °C WB 27,0 °C DB		20,0 °C WB 28,0 °C DB		22,0 °C WB 30,0 °C DB		24,0 °C WB 32,0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10		0,94	1,10	1,02	1,16	1,04	1,17	1,07	1,22	1,11	1,25	1,14	1,24	1,18	1,24	1,25	1,23	1,30	1,20
12		0,94	1,10	1,01	1,15	1,03	1,17	1,06	1,20	1,10	1,24	1,14	1,24	1,17	1,24	1,24	1,22	1,30	1,19
14		0,93	1,09	1,00	1,15	1,02	1,16	1,06	1,20	1,10	1,23	1,13	1,23	1,16	1,23	1,23	1,22	1,29	1,19
16		0,92	1,08	1,00	1,13	1,02	1,15	1,06	1,19	1,09	1,23	1,12	1,22	1,15	1,22	1,22	1,20	1,28	1,18
18		0,91	1,08	0,99	1,12	1,01	1,15	1,05	1,18	1,08	1,22	1,11	1,22	1,14	1,20	1,21	1,19	1,26	1,17
20		0,90	1,06	0,98	1,11	1,00	1,13	1,03	1,17	1,07	1,20	1,10	1,20	1,14	1,20	1,20	1,18	1,26	1,16
21		0,90	1,05	0,98	1,11	0,99	1,12	1,03	1,17	1,06	1,19	1,10	1,19	1,13	1,19	1,20	1,18	1,25	1,16
23		0,90	1,04	0,97	1,10	0,98	1,11	1,02	1,16	1,06	1,18	1,09	1,18	1,12	1,18	1,18	1,17	1,24	1,15
25		0,88	1,03	0,95	1,09	0,98	1,10	1,01	1,15	1,05	1,17	1,07	1,17	1,10	1,17	1,17	1,16	1,22	1,13
27		0,87	1,02	0,94	1,08	0,96	1,09	1,00	1,12	1,03	1,16	1,06	1,16	1,10	1,16	1,16	1,15	1,21	1,12
29		0,86	1,01	0,93	1,06	0,95	1,08	0,98	1,11	1,02	1,15	1,05	1,15	1,08	1,13	1,14	1,12	1,19	1,10
31		0,85	1,00	0,92	1,04	0,94	1,06	0,97	1,10	1,00	1,12	1,03	1,12	1,06	1,12	1,13	1,11	1,18	1,09
33		0,83	0,98	0,90	1,03	0,92	1,04	0,95	1,08	0,98	1,11	1,02	1,11	1,05	1,10	1,10	1,09	1,16	1,06
35		0,82	0,96	0,89	1,01	0,90	1,03	0,94	1,06	0,97	1,09	12,5	9,1	1,03	1,09	1,09	1,08	1,14	1,05
37		0,81	0,95	0,87	1,00	0,89	1,01	0,92	1,04	0,95	1,06	0,98	1,06	1,01	1,06	1,07	1,05	1,12	1,03
39		0,79	0,93	0,86	0,97	0,87	0,98	0,90	1,02	0,94	1,05	0,96	1,04	0,99	1,04	1,05	1,03	1,10	1,01

TC= Total Capacity [kW]
SHC= Sensible Heat Capacity [kW]

Part load performance

38XPS065 matched with 40XPM070

	Cooling		Heating	
	C	P	C	P
Rating	6450	2010	6800	1885

C= Capacity in W

P= Power input in W

COOLING

OD temp. °C		Load %								
		110	100	90	80	70	60	50	40	30
45	C	5658	6137	5561	4984	4368	3704	3127	2345	1808
	P	2793	2452	2112	1750	1408	1111	878	671	502
40	C	6382	6137	5512	4896	4290	3675	3069	2453	1847
	P	2439	2156	1844	1561	1317	1083	868	663	537
35	C	7163	6450	5805	5160	4515	3870	3225	2580	1935
	P	2286	2010	1717	1464	1229	1005	810	624	507
30	C	7740	6714	6030	5365	4691	4017	3352	2678	2013
	P	2111	1854	1590	1356	1132	937	742	576	478
25	C	8209	6939	6235	5541	4847	4163	3469	2775	2072
	P	1968	1717	1473	1249	1044	868	683	527	439
20	C	8483	7115	6391	5688	4974	4271	3557	2844	2130
	P	1837	1590	1356	1161	966	800	644	498	400
15	C	8727	7613	6880	6176	5355	4652	3870	3127	2345
	P	1673	1451	1268	1065	902	726	602	456	332
10	C	9098	7945	7124	6343	5600	4818	3997	3254	2551
	P	1444	1297	1150	994	870	710	575	468	322
5	C	9431	8238	7369	6675	5971	5101	4300	3420	2639
	P	1255	1139	1031	905	765	679	568	457	312
0	C	10007	8727	7740	6997	6255	5434	4613	3665	2815
	P	1090	992	905	818	719	624	531	429	302
-5/-15	C	10418	9138	8072	7290	6509	5678	4818	3909	2834
	P	878	808	749	683	613	546	487	395	293

HEATING

OD temp. °C		Load %								
		110	100	90	80	70	60	50	40	30
20	C	10122	9073	8170	7266	6353	5440	4546	3633	2720
	P	2429	2206	1953	1710	1467	1234	1011	797	593
15	C	9277	8199	7383	6557	5741	4915	4109	3283	2467
	P	2320	2079	1846	1623	1389	1166	962	748	564
10	C	8325	7441	6703	5965	5207	4469	3730	2973	2234
	P	2219	1972	1749	1535	1312	1098	913	719	525
7	C	7694	6800	6120	5440	4760	4080	3400	2720	2040
	P	2119	1885	1671	1467	1253	1059	874	680	505
5	C	7130	6343	5712	5081	4449	3798	3167	2535	1904
	P	2052	1827	1623	1419	1215	1020	845	661	496
2	C	6324	5683	5110	4556	3983	3410	2846	2273	1700
	P	1960	1739	1545	1351	1156	981	806	632	466
0	C	5129	4449	3993	3555	3109	2662	2225	1778	1341
	P	1749	1545	1370	1205	1020	874	719	564	418
-5	C	5051	4449	3993	3555	3109	2662	2225	1778	1341
	P	1781	1545	1370	1205	1020	874	719	564	418
-7	C	4721	4177	3750	3342	2924	2506	2089	1681	1253
	P	1697	1496	1331	1166	1001	836	690	544	408
-10	C	4294	3827	3439	3060	2671	2293	1904	1535	1146
	P	1608	1428	1283	1117	962	806	661	515	368
-15	C	3526	3215	2905	2574	2263	1933	1613	1214	894
	P	1499	1351	1205	1049	904	758	603	447	311

Part load performance

38XPS070 matched with 40XPM070

	Cooling		Heating	
	C	P	C	P
Rating	6730	2095	7300	2020

C= Capacity in W

P= Power input in W

COOLING

OD temp. °C		Load %								
		110	100	90	80	70	60	50	40	30
45	C	5567	6038	5471	4903	4298	3644	3077	2307	1779
	P	2820	2499	2081	1724	1387	1095	865	661	494
40	C	6278	6317	5769	5124	4480	3836	3202	2557	1923
	P	2403	2249	1864	1538	1249	999	788	596	423
35	C	7047	6730	6057	5384	4711	4038	3365	2692	2019
	P	2167	2095	1688	1432	1163	932	730	557	394
30	C	7615	7009	6307	5605	4903	4201	3509	2807	2106
	P	2018	1893	1559	1317	1076	865	682	509	365
25	C	8076	7240	6518	5797	5067	4346	3625	2894	2173
	P	1938	1741	1467	1220	999	807	625	471	346
20	C	8345	7422	6682	5942	5192	4451	3721	2971	2231
	P	1810	1582	1345	1134	932	750	577	442	336
15	C	8586	7490	6768	6076	5269	4576	3807	3077	2307
	P	1614	1429	1209	1049	888	715	593	449	327
10	C	8951	7816	7009	6240	5509	4740	3932	3202	2509
	P	1422	1277	1133	979	857	700	566	461	317
5	C	9278	8105	7249	6567	5874	5019	4230	3365	2596
	P	1192	1068	947	856	753	669	559	450	308
0	C	9845	8586	7615	6884	6153	5346	4538	3605	2769
	P	1038	950	869	777	708	615	523	423	298
-5/-15	C	10249	8989	7941	7172	6403	5586	4740	3846	2788
	P	836	758	703	648	587	538	480	389	288

HEATING

OD temp. °C		Load %									
		120	110	100	90	80	70	60	50	40	30
20	C	10169	10565	9743	8770	7797	6813	5850	4877	3893	2920
	P	2703	2538	2308	2071	1807	1533	1289	1046	822	609
15	C	9987	9936	8811	7918	7047	6164	5282	4400	3518	2636
	P	2650	2466	2233	1969	1705	1452	1228	995	782	568
10	C	9673	8821	7989	7188	6398	5597	4796	3995	3194	2403
	P	2598	2345	2122	1868	1614	1381	1157	944	741	548
7	C	8983	8030	7300	6570	5840	5110	4380	3650	2920	2190
	P	2492	2264	2020	1776	1543	1320	1106	903	711	518
5	C	8456	7665	6803	6134	5445	4765	4086	3407	2727	2048
	P	2436	2203	1969	1726	1492	1279	1076	873	680	508
2	C	7604	6813	6104	5495	4887	4268	3660	3052	2443	1835
	P	2308	2080	1861	1634	1431	1218	1025	832	650	477
0	C	6023	5353	4765	4289	3812	3336	2859	2383	1906	1430
	P	2053	1827	1655	1462	1269	1086	903	741	579	426
-5	C	5941	5353	4765	4289	3812	3336	2859	2383	1906	1430
	P	2063	1861	1655	1462	1269	1086	903	741	579	426
-7	C	5505	5029	4481	4035	3589	3143	2697	2241	1784	1338
	P	1957	1772	1604	1411	1228	1046	883	711	558	416
-10	C	5069	4593	4106	3701	3285	2879	2464	2058	1643	1237
	P	1843	1702	1533	1350	1177	995	843	680	538	396
-15	C	4198	3843	3457	3113	2768	2423	2078	1734	1389	1044
	P	1755	1597	1452	1279	1106	944	802	650	508	365

Part load performance

38XPS100 matched with 40XPM100

	Cooling		Heating	
	C	P	C	P
Rating	10000	2095	11200	3102

C= Capacity in W

P= Power input in W

COOLING

OD temp. °C		Load %									
		120	110	100	90	80	70	60	50	40	30
45	C	9110	10000	9170	8300	7340	6400	5520	4470	3600	2920
	P	2283	2565	2807	2330	1914	1565	1256	980	745	524
40	C	10490	10490	9510	8560	7610	6660	5710	4760	3800	3110
	P	2505	2740	2249	1867	1538	1249	1000	786	598	544
35	C	11540	10000	10000	9000	8000	7000	6000	5000	4000	3310
	P	2578	2095	2095	1739	1430	1162	933	732	551	504
30	C	12310	11660	10410	9370	8330	7290	6250	5210	4160	3470
	P	2538	2572	1934	1605	1316	1074	866	678	510	470
25	C	12920	12000	10750	9680	8600	7530	6450	5380	4300	3670
	P	2505	2464	1793	1491	1222	1000	799	624	477	436
20	C	13360	12260	11030	9970	8890	7720	6620	5520	4410	3750
	P	2431	2350	1665	1383	1135	927	739	584	443	403
15	C	13640	12350	11150	9930	8820	7720	6620	5520	4410	3800
	P	2330	2236	1994	1538	1262	1027	826	638	483	389
10	C	13970	12560	11480	10160	9000	8000	6960	5740	4640	4030
	P	2209	2068	1833	1296	1068	873	698	544	410	336
5	C	14110	12800	11710	10400	9330	8280	7140	6000	4910	4250
	P	2082	1920	1672	1142	893	732	591	470	369	329
0	C	14470	13140	12040	10770	9600	8670	7470	6400	5080	4470
	P	1967	1806	1565	1007	765	624	504	416	336	322
-5/-15	C	14800	13470	12310	11040	9940	8890	7720	6610	5250	4610
	P	1786	1672	1457	987	739	598	490	403	322	309

HEATING

OD temp. °C		Load %								
		120	110	100	90	80	70	60	50	40
20	C	15938	16369	14948	13451	11965	10457	8971	7474	5977
	P	4328	4328	3621	3183	2766	2360	1973	1607	1261
15	C	15712	15831	13515	12158	10812	9455	8098	6752	5395
	P	4251	4251	3417	3000	2614	2238	1871	1526	1200
10	C	15389	14700	12255	11038	9811	8583	7355	6128	4911
	P	4119	4119	3244	2848	2482	2115	1770	1444	1139
7	C	14969	13591	11200	10080	8960	7840	6720	5600	4480
	P	4007	4007	3102	2726	2370	2024	1688	1383	1088
5	C	13968	12643	10446	9402	8357	7312	6268	5223	4178
	P	3916	3916	3000	2634	2299	1963	1637	1343	1058
2	C	12385	11200	9358	8432	7495	6548	5622	4685	3748
	P	3824	3824	2868	2512	2187	1871	1556	1271	997
0	C	9972	8906	7312	6580	5848	5115	4394	3662	2929
	P	3438	3438	2543	2238	1943	1658	1383	1139	885
-5	C	9972	8852	7312	6580	5848	5115	4394	3662	2929
	P	3438	3438	2543	2238	1943	1658	1383	1139	885
-7	C	9477	8432	6882	6192	5503	4814	4135	3435	2746
	P	3316	3316	2461	2166	1892	1607	1343	1098	864
-10	C	8658	7754	6300	5675	5040	4415	3780	3155	2520
	P	3153	3153	2360	2075	1810	1546	1281	1058	834
-15	C	7323	6537	5309	4782	4254	3715	3188	2649	2122
	P	2990	2990	2227	1953	1698	1454	1210	987	783

Part load performance

38XPS125 matched with 40XPM125

Rating	Cooling		Heating	
	C	P	C	P
	12500	4159	13100	3742

C= Capacity in W

P= Power input in W

COOLING

OD temp. °C		Load %									
		120	110	100	90	80	70	60	50	40	30
45	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3518	3952	4325	3590	2949	2411	1935	1510	1148	807
40	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3859	4221	4459	3704	3042	2483	1997	1552	1179	838
35	C	9700	9700	12500	9700	9700	9700	9700	9700	9700	9700
	P	3973	4066	4159	3445	2835	2317	1852	1448	1097	776
30	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3911	3962	3838	3186	2628	2131	1717	1345	1014	724
25	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3859	3797	3569	2959	2431	1976	1583	1241	941	672
20	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3745	3621	3311	2752	2255	1842	1479	1148	879	621
15	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3590	3445	3073	2369	1945	1583	1273	983	776	610
10	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3404	3186	2824	1997	1645	1345	1076	828	704	600
5	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3207	2959	2638	1811	1428	1159	931	745	652	590
0	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	3031	2783	2411	1655	1293	1035	848	724	662	579
-5/-15	C	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	P	2752	2576	2245	1552	1241	983	828	704	662	569

HEATING

OD temp. °C		Load %								
		110	100	90	80	70	60	50	40	30
20	C	16100	17490	15740	13990	12240	10490	8740	6990	5250
	P	4257	4362	3832	3322	2852	2391	1941	1531	1111
15	C	15900	15790	14210	12640	11060	9480	7900	6320	4730
	P	4182	4122	3622	3152	2691	2261	1831	1441	1061
10	C	15500	14340	12910	11470	10040	8610	7180	5740	4300
	P	4102	3912	3442	2982	2551	2141	1741	1361	1001
7	C	14360	13100	11790	10480	9170	7860	6550	5240	3930
	P	3942	3742	3292	2852	2441	2041	1661	1311	961
5	C	13250	12220	11000	9780	8550	7340	6110	4880	3670
	P	3882	3632	3182	2761	2371	1981	1611	1271	930
2	C	11720	10950	9850	8760	7660	6570	5470	4380	3280
	P	3762	3452	3032	2631	2251	1881	1531	1211	880
0	C	9260	8550	7700	6840	5990	5140	4280	3420	2560
	P	3382	3062	2691	2331	2001	1671	1361	1071	780
-5	C	9260	8550	7700	6840	5990	5140	4280	3420	2560
	P	3382	3062	2691	2331	2001	1671	1361	1071	780
-7	C	8800	8050	7240	6440	5630	4830	4020	3220	2410
	P	3262	2972	2611	2271	1941	1621	1321	1041	760
-10	C	8040	7360	6630	5900	5160	4420	3690	2950	2210
	P	3102	2852	2501	2171	1861	1551	1261	991	720
-15	C	6800	6210	5590	4970	4350	3720	3110	2480	1860
	P	2942	2681	2361	2041	1751	1471	1191	941	690



Order No. 14028-20, 10.2007
 Manufacturer reserves the right to change any product specifications without notice.