

Subtype Sheen EVO/EVO 2.0 - 30.2, 35.2, 40.2		
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ICIM S.p.A.		
Sheen EVO/EVO 2.0 - 30.2, 35.2, 40.2		
ICIM-PDC-000132		
Outdoor Air/Water		
R32		
17.5 kg		
21.02.2022		
HP KEYMARK certification scheme rules rev. no. 9		



Model WSAN-YSi 30.2		
Model name	WSAN-YSi 30.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
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General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Low town paratives	Madium tanar aratura
Sound newer level suitdeer	Low temperature	Medium temperature
Sound power level outdoor	82 dB(A)	
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	160 %	- постания постанования
Prated	51.00 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = -7°C	45.02 kW	
COP Tj = -7°C	2.75	
Cdh Tj = -7 °C	0.900	
Pdh Tj = $+2^{\circ}$ C	28.17 kW	
$COP Tj = +2^{\circ}C$	4.18	
Cdh Tj = +2 °C	0.900	
Pdh Tj = $+7^{\circ}$ C	26.16 kW	
$COP Tj = +7^{\circ}C$	5.00	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	31.74 kW	
COP Tj = 12°C	6.88	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	45.02 kW	
COP Tj = Tbiv	2.75	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	42.80 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	54 °C
Poff	104 W
PTO	508 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	8.20 kW
Annual energy consumption Qhe	25834 kWh



Model WSAN-YSi 35.2		
Model name	WSAN-YSi 35.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Mator		
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	159 %	· · · · · · · · · · · · · · · · · · ·
Prated	55.00 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh $Tj = -7$ °C	48.43 kW	
$COP Tj = -7^{\circ}C$	2.68	
Cdh Tj = -7 °C	0.900	
Pdh Tj = $+2^{\circ}$ C	29.76 kW	
$COP Tj = +2^{\circ}C$	4.16	
Cdh Tj = $+2$ °C	0.900	
Pdh Tj = $+7^{\circ}$ C	26.16 kW	
$COP Tj = +7^{\circ}C$	5.00	
Cdh Tj = $+7$ °C	0.900	
Pdh Tj = 12°C	31.82 kW	
COP Tj = 12°C	6.84	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	48.30 kW	
COP Tj = Tbiv	2.68	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	47.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	54 °C
Poff	104 W
PTO	540 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	7.80 kW
Annual energy consumption Qhe	27859 kWh



Model WSAN-YSi 40.2		
Model name	WSAN-YSi 40.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
0		
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	riculani temperatare
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	159 %	·
Prated	56.00 kW	
SCOP	4.04	
Tbiv	-7 °C	
TOL	-15 °C	
Pdh Tj = $-7$ °C	49.34 kW	
$COP Tj = -7^{\circ}C$	2.67	
Cdh Tj = $-7$ °C	0.900	
$Pdh Tj = +2^{\circ}C$	31.85 kW	
$COP Tj = +2^{\circ}C$	4.24	
Cdh Tj = +2 °C	0.900	
Pdh Tj = $+7^{\circ}$ C	26.15 kW	
$COP Tj = +7^{\circ}C$	4.73	
Cdh Tj = +7 °C	0.900	
Pdh Tj = $12^{\circ}$ C	32.51 kW	
$COP Tj = 12^{\circ}C$	6.78	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	49.34 kW	
COP Tj = Tbiv	2.67	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	53.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.00	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	54 °C
Poff	104 W
PTO	690 W
PSB	104 W
PCK	0 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	3.00 kW
Annual energy consumption Qhe	28523 kWh



Model WiSAN-YSE1 EXC-SC 30.2		
Model name	WiSAN-YSE1 EXC-SC 30.2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	78 dB(A)	78 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	170 %	125 %
Prated	53.40 kW	58.02 kW
SCOP	4.33	3.20
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7$ °C	47.21 kW	47.66 kW
$COP Tj = -7^{\circ}C$	2.73	1.96
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = $+2$ °C	30.76 kW	29.59 kW
$COP Tj = +2^{\circ}C$	4.34	3.12
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	35.04 kW	39.10 kW
$COP Tj = +7^{\circ}C$	5.60	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.87 kW	33.21 kW
COP Tj = 12°C	7.28	6.07
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	47.21 kW	49.09 kW
COP Tj = Tbiv	2.73	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	44.78 kW	45.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.42	1.59
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970



WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	8.59 kW	12.98 kW
Annual energy consumption Qhe	25443 kWh	37519 kWh



Model WiSAN-YSE1 EXC-SC 35.2		
Model name	WiSAN-YSE1 EXC-SC 35.2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	81 dB(A)	81 dB(A)
	· ·	
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	169 %	125 %
Prated	58.90 kW	62.63 kW
SCOP	4.29	3.19
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh $Tj = -7^{\circ}C$	52.10 kW	51.45 kW
$COP Tj = -7^{\circ}C$	2.67	1.94
Cdh Tj = -7 °C	0.970	0.970
Pdh $Tj = +2^{\circ}C$	30.80 kW	31.11 kW
$COPTj = +2^{\circ}C$	4.30	3.09
Cdh Tj = +2 °C	0.970	0.970
Pdh $Tj = +7$ °C	35.10 kW	40.31 kW
$COPTj = +7^{\circ}C$	5.53	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.91 kW	34.24 kW
COP Tj = 12°C	7.19	6.43
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	52.10 kW	53.00 kW
COP Tj = Tbiv	2.67	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	50.10 kW	48.62 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970



WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	8.80 kW	14.01 kW
Annual energy consumption Qhe	28335 kWh	40595 kWh



Model WiSAN-YSE1 PRM-SC 30.2		
Model name	WiSAN-YSE1 PRM-SC 30.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
Outdoor All/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	80 dB(A)	,
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	162 %	
Prated	55.80 kW	
SCOP	4.12	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = $-7$ °C	49.33 kW	
$COP Tj = -7^{\circ}C$	2.70	
Cdh Tj = -7 °C	0.950	
Pdh Tj = $+2$ °C	31.45 kW	
COP Tj = +2°C	4.15	
Cdh Tj = +2 °C	0.950	
Pdh Tj = $+7^{\circ}$ C	35.74 kW	
$COP Tj = +7^{\circ}C$	5.34	
Cdh Tj = +7 °C	0.950	
Pdh Tj = 12°C	41.42 kW	
COP Tj = 12°C	6.68	
Cdh Tj = $+12$ °C	0.950	
Pdh Tj = Tbiv	49.33 kW	
COP Tj = Tbiv	2.70	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	46.28 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.39	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.950	



WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	9.48 kW
Annual energy consumption Qhe	27961 kWh



Model WiSAN-YSE1 PRM-SC 35.2		
Model name	WiSAN-YSE1 PRM-SC 35.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
Outdoor All/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	160 %	
Prated	62.80 kW	
SCOP	4.08	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = $-7$ °C	55.56 kW	
$COP Tj = -7^{\circ}C$	2.62	
Cdh Tj = $-7$ °C	0.950	
Pdh Tj = $+2$ °C	33.51 kW	
COP Tj = +2°C	4.10	
Cdh Tj = +2 °C	0.950	
Pdh Tj = $+7^{\circ}$ C	35.91 kW	
$COP Tj = +7^{\circ}C$	5.30	
Cdh Tj = $+7$ °C	0.950	
Pdh Tj = 12°C	42.87 kW	
$COP Tj = 12^{\circ}C$	6.60	
Cdh Tj = $+12$ °C	0.950	
Pdh Tj = Tbiv	55.56 kW	
COP Tj = Tbiv	2.62	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	50.14 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.950	



WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	12.67 kW
Annual energy consumption Qhe	31806 kWh



Model WiSAN-YSE1 PRM-SC 40.2		
Model name	WiSAN-YSE1 PRM-SC 40.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
On-peak product	11/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Laurhanan	Madisus t
Cound now and out to a	Low temperature	Medium temperature
Sound power level outdoor	83 dB(A)	
EN 14825   Average Climate		
	Low tomporature	Madium tamparatura
	Low temperature 162 %	Medium temperature
ηs Prated	67.00 kW	
SCOP	4.13	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	59.24 kW	
$COP Tj = -7^{\circ}C$	2.60	
Cdh Tj = -7 °C	0.970	
Pdh Tj = $+2^{\circ}$ C	36.53 kW	
$COP Tj = +2^{\circ}C$	4.08	
Cdh Tj = +2 °C	0.970	
Pdh Tj = $+7^{\circ}$ C	36.00 kW	
$COP Tj = +7^{\circ}C$	5.40	
Cdh Tj = +7 °C	0.970	
Pdh Tj = 12°C	42.95 kW	
COP Tj = 12°C	6.76	
Cdh Tj = +12 °C	0.970	
Pdh Tj = Tbiv	59.24 kW	
COP Tj = Tbiv	2.60	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.44 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	





WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	11.53 kW
Annual energy consumption Qhe	33528 kWh



Model WiSAN-YSE1 PRM-EN 30.2		
Model name	WiSAN-YSE1 PRM-EN 30.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	76 dB(A)	·
5111100511		
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	161 %	
Prated	51.20 kW	
SCOP	4.10	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh $Tj = -7$ °C	45.26 kW	
$COP Tj = -7^{\circ}C$	2.73	
Cdh Tj = $-7$ °C	0.900	
Pdh $Tj = +2$ °C	27.20 kW	
$COP Tj = +2^{\circ}C$	4.23	
Cdh Tj = +2 °C	0.900	
Pdh Tj = $+7^{\circ}$ C	27.29 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	40.91 kW	
$COP Tj = 12^{\circ}C$	6.70	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	45.26 kW	
COP Tj = Tbiv	2.73	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	39.29 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	11.87 kW
Annual energy consumption Qhe	25750 kWh



Model WiSAN-YSE1 PRM-EN 35.2		
Model name	WiSAN-YSE1 PRM-EN 35.2	
Application	Heating (low temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	77 dB(A)	·
EN 14005   4		
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	159 %	
Prated	56.70 kW	
SCOP	4.06	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh $Tj = -7$ °C	50.14 kW	
COP Tj = -7°C	2.70	
Cdh Tj = $-7$ °C	0.900	
Pdh $Tj = +2$ °C	30.53 kW	
$COP Tj = +2^{\circ}C$	4.11	
Cdh Tj = +2 °C	0.900	
Pdh Tj = $+7^{\circ}$ C	27.29 kW	
COP Tj = +7°C	5.40	
Cdh Tj = +7 °C	0.900	
Pdh Tj = 12°C	40.91 kW	
$COP Tj = 12^{\circ}C$	6.70	
Cdh Tj = +12 °C	0.900	
Pdh Tj = Tbiv	50.14 kW	
COP Tj = Tbiv	2.70	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	41.71 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.15	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	14.97 kW
Annual energy consumption Qhe	28860 kWh



Model name         WiSAN-YSE1 PRM-EN 40.2           Application         Heating (low temp)           Outdoor         Outdoor           Climate zone (for heating)         n/a           Reversibility         Yes           Cooling mode application (optional)         n/a           Any additional heat sources         n/a           General data         Power supply         3x400V 50Hz           Off-peak product         n/a           Outdoor Air/Water         Low temperature         Medium temperature           Sound power level outdoor         E. Low temperature         Medium temperature           Sound power level outdoor         Low temperature         Medium temperature           Product         40A)         Product         Product           Application         Product         Product         Product           Sound power level outdoor         E. Low temperature         Medium temperature           Product         Product         Product         Product           Sound power level outdoor         Product         Product         Product           Sound power level outdoor         Product         Product         Product         Product           Sound power level outdoor         Rule of Medium temperature         Pr			
Application	Model WiSAN-YSE1 PRM-EN 40.2		
Units Climate zone (for heating) Climate zone (for heating) N/a Reversibility Yes Cooling mode application (optional) Any additional heat sources  General data Power supply 3x400V 50Hz Off-peak product Outdoor Air/Water EN 12102-1   Average Climate  Sound power level outdoor EN 14825   Average Climate  Low temperature 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 159 % Prated 64.10 kW SCOP Toble	Model name	WiSAN-YSE1 PRM-EN 40.2	
Climate zone (for heating)   n/a	Application	Heating (low temp)	
Reversibility Yes Cooling mode application (optional) n/a Any additional heat sources n/a  General data  Power supply 3x400V 50Hz  Off-peak product n/a  Outdoor Air/Water  EN 12102-1   Average Climate  Low temperature Medium temperature  Sound power level outdoor 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature  159 % Prated 64.10 kW  SCOP 4.05  Tbiv -7 °C  TOL -10 °C  Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 0.900  Pdh Tj = +2°C 4.08  Cdh Tj = +2 °C 0.900  Pdh Tj = +2 °C 0.900  Pdh Tj = +7 °C 0.900  Pdh Tj = 10 °C 0.900  Pdh Tj = Tot 0.9000  Pdh	Units	<u> </u>	
Reversibility Yes Cooling mode application (optional) n/a Any additional heat sources n/a  General data  Power supply 3x400V 50Hz  Off-peak product n/a  Outdoor Air/Water  EN 12102-1   Average Climate  Low temperature Medium temperature  Sound power level outdoor 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature  159 % Prated 64.10 kW  SCOP 4.05  Tbiv -7 °C  TOL -10 °C  Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 0.900  Pdh Tj = +2°C 4.08  Cdh Tj = +2 °C 0.900  Pdh Tj = +2 °C 0.900  Pdh Tj = +7 °C 0.900  Pdh Tj = 10 °C 0.900  Pdh Tj = Tot 0.9000  Pdh	Climate zone (for heating)	n/a	
Any additional heat sources  General data  Power supply Off-peak product Outdoor Air/Water  EN 12102-1   Average Climate  Low temperature 78 dB(A)  EN 14825   Average Climate  Low temperature 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 159 % Prated 64.10 kW  SCOP 150 -7 ° C 10 -10 ° C  Pdh Tj = -7° C 56.67 kW  COP Tj = -7° C 2.65 Cdh Tj = -7 ° C 0.900 Pdh Tj = +2 ° C 0.900 Pdh Tj = +2 ° C 0.900 Pdh Tj = +2 ° C 0.900 Pdh Tj = +7 ° C 0.900 Pdh Tj = +7 ° C 0.900 Pdh Tj = +7 ° C 0.900 Pdh Tj = 12 ° C 0.900 Pdh Tj = Tbiv 56.67 kW COP Tj = +12 ° C 0.900 Pdh Tj = Tbiv 56.67 kW COP Tj = Tbiv 7.04 COP Tj = Tbiv 56.67 kW COP Tj = ToL or Pdh Tj = Tdesignh if TOL COP Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tdesignh COP Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tdesignh COP Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tdesignh COP Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tour Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = TOL or Pdh Tj = Tdesignh if TOL Cot Tj = Tol Tj = Tol Cot Tj = Tdesignh if TOL Cot Tj = Tol Tj = Tdesignh if TOL Cot Tj = Tol Tj = Tdesignh if TOL Cot Tj = Tdesignh if Tol Tj = Tdesignh if	Reversibility	Yes	
General data Power supply 3x400V 50Hz Off-peak product n/a  Outdoor Air/Water  EN 12102-1   Average Climate  Low temperature Medium temperature Sound power level outdoor 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 159 % Prated 64.10 kW SCOP 4.05  Tbiv -7 °C TOL -10 °C Pdh Tj = -7°C 56.67 kW COP Tj = -7°C 2.65 Cdh Tj = +2°C 33.07 kW COP Tj = +2°C 4.08 Cdh Tj = +2°C 4.08 Cdh Tj = +7°C 5.40 Cdh Tj = +7°C 7.29 kW COP Tj = 12°C 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20	Cooling mode application (optional)	n/a	
Power supply	Any additional heat sources	n/a	
Outdoor Air/Water  EN 12102-1   Average Climate  Sound power level outdoor 78 dB(A)  EN 14825   Average Climate  Low temperature 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 159 %  Prated 64.10 kW  SCOP 4.05  Tbiv -7 °C  TOL -10 °C  Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 0.900  Pdh Tj = +2°C 0.900  Pdh Tj = +2°C 4.08  COP Tj = +2°C 4.08  COP Tj = +7°C 5.40  COP Tj = +7°C 5.40  COP Tj = +7°C 5.40  COP Tj = 12°C 40.91 kW  COP Tj = 12°C 5.40  COP Tj = 12°C 6.70  Cdh Tj = 12°C 6.70  Cdh Tj = 12°C 6.70  Cdh Tj = Tbiv 56.67 kW  COP Tj = Tbiv 56.67 kW  COP Tj = ToL or Pdh Tj = Tdesignh if TOL 7.04 kW  < Tdesignh  COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.09  CT 1900  CT 1900  CT 1900  CT 2000	General data		
Outdoor Air/Water  EN 12102-1   Average Climate  Sound power level outdoor 78 dB(A)  EN 14825   Average Climate  Low temperature 78 dB(A)  EN 14825   Average Climate  Low temperature Medium temperature 159 %  Prated 64.10 kW  SCOP 4.05  Tbiv -7 °C  TOL -10 °C  Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 0.900  Pdh Tj = +2°C 0.900  Pdh Tj = +2°C 4.08  COP Tj = +2°C 4.08  COP Tj = +7°C 5.40  COP Tj = +7°C 5.40  COP Tj = +7°C 5.40  COP Tj = 12°C 40.91 kW  COP Tj = 12°C 5.40  COP Tj = 12°C 6.70  Cdh Tj = 12°C 6.70  Cdh Tj = 12°C 6.70  Cdh Tj = Tbiv 56.67 kW  COP Tj = Tbiv 56.67 kW  COP Tj = ToL or Pdh Tj = Tdesignh if TOL 7.04 kW  < Tdesignh  COP Tj = TOL or Pdh Tj = Tdesignh if TOL 7.09  CT 1900  CT 1900  CT 1900  CT 2000	Power supply	3x400V 50Hz	
Low temperature   Medium temperature	Off-peak product		
Low temperature   Medium temperature	Outside on Air MAIstern		
Low temperature   Medium temperature	Outdoor Air/Water		
Low temperature   Medium temperature	EN 12102-1   Average Climate		
Low temperature   Medium temperature		Low temperature	Medium temperature
Low temperature   Medium temperature	Sound power level outdoor	·	
Low temperature Medium temperature  ns 159 % Prated 64.10 kW SCOP 4.05 Tbiv -7 °C TOL -10 °C Pdh Tj = -7°C 56.67 kW COP Tj = +2°C 0.900 Pdh Tj = +2°C 4.08 Cdh Tj = +7 °C COP Tj = +7°C 27.29 kW COP Tj = +7°C COP Tj = +7°C 40.900 Pdh Tj = +2°C 40.90 Pdh Tj = +7°C 5.40 COP Tj = +7°C 5.40 COP Tj = +7°C 5.40 COP Tj = +7°C 40.91 kW COP Tj = 12°C 40.91 kW COP Tj = 12°C 56.67 kW COP Tj = 12°C 56.67 kW COP Tj = Tbiv 56.67 kW COP Tj = Tbiv 56.67 kW COP Tj = ToL or Pdh Tj = Tdesignh if TOL 50.900 Pdh Tj = TOL or COP Tj = Tdesignh if TOL 50.900 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 50.900		()	
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Prated 64.10 kW  SCOP 4.05  Tbiv -7 °C  TOL -10 °C  Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 0.990  Pdh Tj = +2°C 0.990  Pdh Tj = +2°C 0.990  Pdh Tj = +2°C 0.990  Pdh Tj = +7°C 0.990  Pdh Tj = 12°C 0.990  Pdh Tj = 12°C 0.990  Pdh Tj = 12°C 0.990  Pdh Tj = ToU or Pdh Tj = Tdesignh if TOL 0.990  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.990	ης	•	•
Tbiv	Prated	64.10 kW	
TOL -10 °C Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 2.65  Cdh Tj = -7 °C 0.900  Pdh Tj = +2°C 0.900  Pdh Tj = +2°C 4.08  Cdh Tj = +2 °C 0.900  Pdh Tj = +7°C 5.40  COP Tj = +7°C 5.40  COP Tj = +7°C 0.900  Pdh Tj = +7°C 0.900  Pdh Tj = 12°C 0.900  COP Tj = 12°C 0.900  Pdh Tj = ToL or Pdh Tj = Tdesignh if TOL 0.900  Tdesignh  COP Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900  Tdesignh  Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900	SCOP	4.05	
Pdh Tj = -7°C 56.67 kW  COP Tj = -7°C 2.65  Cdh Tj = -7 °C 0.900  Pdh Tj = +2°C 33.07 kW  COP Tj = +2°C 4.08  Cdh Tj = +2 °C 0.900  Pdh Tj = +7°C 27.29 kW  COP Tj = +7°C 5.40  COP Tj = +7°C 0.900  Pdh Tj = +7°C 5.40  Cdh Tj = +7 °C 0.900  Pdh Tj = 12°C 6.70  Cdh Tj = 12°C 6.70  Cdh Tj = +12 °C 0.900  Pdh Tj = Tbiv 56.67 kW  COP Tj = Tbiv 2.65  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 7.04 kW  < Tdesignh  COP Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900 <p>Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900</p>	Tbiv	-7 °C	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	TOL	-10 °C	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Pdh Tj = $-7^{\circ}$ C	56.67 kW	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$COP Tj = -7^{\circ}C$	2.65	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Cdh Tj = -7 °C	0.900	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Pdh $Tj = +2$ °C	33.07 kW	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$COP Tj = +2^{\circ}C$	4.08	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Cdh Tj = +2 °C	0.900	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Pdh $Tj = +7$ °C	27.29 kW	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	•	5.40	
Pdh $Tj = 12^{\circ}C$ 40.91 kW  COP $Tj = 12^{\circ}C$ 6.70  Cdh $Tj = +12^{\circ}C$ 0.900  Pdh $Tj = Tbiv$ 56.67 kW  COP $Tj = Tbiv$ 2.65  Pdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL$ 47.04 kW  < $Tdesignh$ COP $Tj = TOL$ or COP $Tj = Tdesignh$ if $TOL$ 2.03  < $Tdesignh$ Cdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL$ 0.900	Cdh Tj = $+7$ °C		
COP $Tj = 12$ °C 6.70  Cdh $Tj = +12$ °C 0.900  Pdh $Tj = Tbiv$ 56.67 kW  COP $Tj = Tbiv$ 2.65  Pdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL$ 47.04 kW  < $Tdesignh$ COP $Tj = TOL$ or COP $Tj = Tdesignh$ if $TOL$ 2.03  < $Tdesignh$ Cdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL$ 0.900	Pdh Tj = 12°C		
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	COP Tj = 12°C		
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COP Tj = Tbiv  2.65  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL  47.04 kW  < Tdesignh  COP Tj = TOL or COP Tj = Tdesignh if TOL  2.03  < Tdesignh  Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL  0.900	Pdh Tj = Tbiv		
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COP Tj = TOL or COP Tj = Tdesignh if TOL 2.03 < Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.900	Pdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL$		
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $0.900$	COP Tj = TOL or COP Tj = Tdesignh if TOL	2.03	
	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	





WTOL	35 °C
Poff	110 W
PTO	200 W
PSB	110 W
PCK	10 W
Supplementary Heater: Type of energy input	n/a
Supplementary Heater: PSUP	17.02 kW
Annual energy consumption Qhe	32639 kWh



Model WiSAN-YSE1 EXC-EN 30.2		
Model name	WiSAN-YSE1 EXC-EN 30.2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	73 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	167 %	126 %
Prated	48.80 kW	47.71 kW
SCOP	4.24	3.22
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7$ °C	43.21 kW	39.44 kW
COP Tj = -7°C	2.67	2.00
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = $+2$ °C	27.14 kW	29.50 kW
$COP Tj = +2^{\circ}C$	4.32	3.15
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	27.23 kW	39.10 kW
$COP Tj = +7^{\circ}C$	5.40	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	40.82 kW	33.11 kW
COP Tj = 12°C	6.70	6.15
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	43.21 kW	40.37 kW
COP Tj = Tbiv	2.67	2.10
Pdh $Tj = TOL$ or Pdh $Tj = Tdesignh$ if $TOL < Tdesignh$	38.45 kW	37.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.33	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970



WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	10.40 kW	10.15 kW
Annual energy consumption Qhe	23799 kWh	30651 kWh



Model WiSAN-YSE1 EXC-EN 35.2		
Model name	WiSAN-YSE1 EXC-EN 35.2	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
,		
EN 12102-1   Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)
EN 14035   Avenue of C'		
EN 14825   Average Climate		
	Low temperature	Medium temperature
ης	165 %	125 %
Prated	52.60 kW	55.24 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	46.55 kW	45.64 kW
$COP Tj = -7^{\circ}C$	2.64	1.94
Cdh Tj = -7 °C	0.970	0.970
Pdh Tj = +2°C	28.48 kW	29.59 kW
$COP Tj = +2^{\circ}C$	4.27	3.12
Cdh Tj = +2 °C	0.970	0.970
$Pdh Tj = +7^{\circ}C$	27.37 kW	39.10 kW
$COP Tj = +7^{\circ}C$	5.35	4.42
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	41.05 kW	33.21 kW
COP Tj = 12°C	6.66	6.15
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	46.55 kW	46.74 kW
COP Tj = Tbiv	2.64	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	40.23 kW	41.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.970	0.970



WTOL	35 °C	55 °C
Poff	110 W	110 W
PTO	200 W	200 W
PSB	110 W	110 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	12.39 kW	13.76 kW
Annual energy consumption Qhe	25887 kWh	35690 kWh