

Subtype Windmi Monoblock 14kW/16kW

Certificate Holder	Rotenso Sp. z o.o.
Address	ul. Szyb Walenty 16
ZIP	41-700
City	Ruda Śląska
Country	PL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Windmi Monoblock 14kW/16kW
Registration number	011-1W0819
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 kg
Certification Date	25.06.2024
Testing basis	HP KEYMARK certification scheme rules V12

Model WIM140X3

Model name	WIM140X3
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 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	14.00 kW	12.00 kW
El input	2.98 kW	4.36 kW
COP	4.70	2.75

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	134 %
Prated	14.03 kW	11.99 kW
SCOP	4.94	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.41 kW	10.61 kW
COP Tj = -7°C	3.00	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.51 kW	6.57 kW
COP Tj = +2°C	4.70	3.17
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.11 kW	4.36 kW

COP Tj = +7°C	6.90	4.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.64 kW	4.35 kW
COP Tj = 12°C	9.50	7.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.41 kW	10.61 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.89 kW	10.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	62 °C	62 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.14 kW	1.65 kW
Annual energy consumption Qhe	5789 kWh	7204 kWh

Model WIM160X3

Model name	WIM160X3
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 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	13.50 kW
El input	3.44 kW	5.00 kW
COP	4.65	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	131 %
Prated	14.79 kW	13.06 kW
SCOP	4.78	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.08 kW	11.55 kW
COP Tj = -7°C	2.93	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.25 kW	7.13 kW
COP Tj = +2°C	4.52	3.13
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.60 kW	4.53 kW

COP Tj = +7°C	6.39	4.78
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.64 kW	4.35 kW
COP Tj = 12°C	9.50	7.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.08 kW	11.55 kW
COP Tj = Tbiv	2.93	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.66 kW	10.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	62 °C	62 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.13 kW	2.56 kW
Annual energy consumption Qhe	6392 kWh	7948 kWh