Subtype MULTITHERMA 21 HD	
Certificate Holder	IGLOO Sp. z o.o.
Address	Stary Wiśnicz 289
ZIP	32-720
City	Nowy Wiśnicz
Country	PL
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	MULTITHERMA 21 HD
Registration number	037-0189-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	2.2 kg
Certification Date	10.12.2024
Testing basis	HP Keymark certification scheme rules rev. no.13

Model MultiTherma 21 HD + MultiTherma PRO 16-25	
Model name	MultiTherma 21 HD + MultiTherma PRO 16-25
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.29 kW	1.94 kW
COP	4.88	2.79

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	164 %	122 %
Prated	8.42 kW	8.02 kW
SCOP	4.17	3.13
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.66	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	3.94	2.98
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	5.76	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.36	5.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.58	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4175 kWh	5299 kWh

Model MultiTherma 21 HD Cascade + MultiTherma PRO 16-25	
Model name	MultiTherma 21 HD Cascade + MultiTherma PRO 16-25
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.29 kW	1.94 kW
COP	4.88	2.79

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	164 %	122 %
Prated	8.42 kW	8.02 kW
SCOP	4.17	3.13
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.66	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	3.94	2.98
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	5.76	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.36	5.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.58	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4175 kWh	5299 kWh

Model MultiTherma 21 HD + MultiTherma BASIC 16-25	
Model name	MultiTherma 21 HD + MultiTherma BASIC 16-25
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.25 kW	1.88 kW
COP	5.02	2.88

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	169 %	126 %
Prated	8.42 kW	8.02 kW
SCOP	4.29	3.22
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.66	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.09	3.08
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	5.98	4.39
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.65	5.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.58	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4054 kWh	5153 kWh

Model MultiTherma 21 HD Cascade + MultiTherma BASIC 16-25	
Model name	MultiTherma 21 HD Cascade + MultiTherma BASIC 16-25
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.25 kW	1.88 kW
COP	5.02	2.88

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	169 %	126 %
Prated	8.42 kW	8.02 kW
SCOP	4.29	3.22
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.66	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.09	3.08
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	5.98	4.39
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.65	5.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.58	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4054 kWh	5153 kWh

Model MultiTherma 21 HD + ElectroBox	
Model name	MultiTherma 21 HD + ElectroBox
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.22 kW	1.83 kW
COP	5.17	2.96

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	130 %
Prated	8.42 kW	8.02 kW
SCOP	4.45	3.33
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.76	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.25	3.20
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	6.22	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.94	5.84
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.60	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3906 kWh	4972 kWh

Model MultiTherma 21 HD Cascade + ElectroBox	
Model name	MultiTherma 21 HD Cascade + ElectroBox
Application	Heating (medium temp)
Units	Indoor, 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	6.29 kW	5.42 kW
El input	1.22 kW	1.83 kW
COP	5.17	2.96

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	130 %
Prated	8.42 kW	8.02 kW
SCOP	4.45	3.33
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.76	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.25	3.20
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	6.22	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.94	5.84
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.60	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3906 kWh	4972 kWh

Model MultiTherma 21 HD	
Model name	MultiTherma 21 HD
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	6.29 kW	5.42 kW
El input	1.22 kW	1.83 kW
COP	5.17	2.96

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	130 %
Prated	8.42 kW	8.02 kW
SCOP	4.45	3.33
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.76	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.25	3.20
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	6.22	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.94	5.84
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.60	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3906 kWh	4972 kWh

Model MultiTherma 21 HD Cascade	
Model name	MultiTherma 21 HD Cascade
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	6.29 kW	5.42 kW
El input	1.22 kW	1.83 kW
COP	5.17	2.96

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	55 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	175 %	130 %
Prated	8.42 kW	8.02 kW
SCOP	4.45	3.33
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.35 kW	7.59 kW
COP Tj = -7°C	2.76	2.09
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.49 kW	4.64 kW
COP Tj = +2°C	4.25	3.20
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.80 kW	2.67 kW
COP Tj = +7°C	6.22	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.31 kW	3.09 kW
COP Tj = 12°C	7.94	5.84
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.42 kW	8.02 kW
COP Tj = Tbiv	2.60	1.78
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.42 kW	8.02 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	27 W	27 W
PTO	57 W	57 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3906 kWh	4972 kWh