

Subtype MULTITHERMA 12 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 12 HD
Registration number	037-0187-24
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	2 kg
Certification Date	10.12.2024
Testing basis	HP Keymark certification scheme rules rev. no.13

Model MultiTherma 12 HD

Model name	MultiTherma 12 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	4.06 kW	3.55 kW
El input	0.79 kW	1.18 kW
COP	5.12	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	8.22 kW	7.49 kW
SCOP	4.83	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.15	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.61	3.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.73 kW	2.57 kW

COP Tj = +7°C	6.47	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	7.24	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.58	1.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3514 kWh	4262 kWh

Model MultiTherma 12 HD Cascade

Model name	MultiTherma 12 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	4.06 kW	3.55 kW
El input	0.79 kW	1.18 kW
COP	5.12	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	8.22 kW	7.49 kW
SCOP	4.83	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.15	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.61	3.48
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.73 kW	2.57 kW

COP Tj = +7°C	6.47	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	7.24	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.58	1.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3514 kWh	4262 kWh

Model MultiTherma 12 HD + ElectroBox

Model name	MultiTherma 12 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	4.06 kW	3.55 kW
El input	0.79 kW	1.18 kW
COP	5.12	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	8.22 kW	7.49 kW
SCOP	4.83	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.15	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.61	3.48
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	6.47	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	7.24	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.58	1.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3514 kWh	4262 kWh

Model MultiTherma 12 HD Cascade + ElectroBox

Model name	MultiTherma 12 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	4.06 kW	3.55 kW
El input	0.79 kW	1.18 kW
COP	5.12	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	190 %	142 %
Prated	8.22 kW	7.49 kW
SCOP	4.83	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.15	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.61	3.48
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	6.47	4.93
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	7.24	6.02
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.58	1.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3514 kWh	4262 kWh

Model MultiTherma 12 HD + MultiTherma BASIC 5-15

Model name	MultiTherma 12 HD + MultiTherma BASIC 5-15
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	4.06 kW	3.55 kW
El input	0.82 kW	1.22 kW
COP	4.97	2.91

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	28 dB(A)	28 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	137 %
Prated	8.22 kW	7.49 kW
SCOP	4.66	3.50
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.10	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.42	3.34
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	6.22	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	6.96	5.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.55	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3641 kWh	4418 kWh

Model MultiTherma 12 HD Cascade + MultiTherma BASIC 5-15

Model name	MultiTherma 12 HD Cascade + MultiTherma BASIC 5-15
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	4.06 kW	3.55 kW
El input	0.82 kW	1.22 kW
COP	4.97	2.91

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	28 dB(A)	28 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	137 %
Prated	8.22 kW	7.49 kW
SCOP	4.66	3.50
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.10	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.42	3.34
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	6.22	4.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	6.96	5.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.55	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3641 kWh	4418 kWh

Model MultiTherma 12 HD + MultiTherma PRO 5-15

Model name	MultiTherma 12 HD + MultiTherma PRO 5-15
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	4.06 kW	3.55 kW
El input	0.84 kW	1.26 kW
COP	4.81	2.82

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	133 %
Prated	8.22 kW	7.49 kW
SCOP	4.53	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.10	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.27	3.23
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	5.99	4.57
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	6.71	5.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.55	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3747 kWh	4541 kWh

Model MultiTherma 12 HD Cascade + MultiTherma PRO 5-15

Model name	MultiTherma 12 HD Cascade + MultiTherma PRO 5-15
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	4.06 kW	3.55 kW
El input	0.84 kW	1.26 kW
COP	4.81	2.82

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	52 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	133 %
Prated	8.22 kW	7.49 kW
SCOP	4.53	3.41
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.65 kW	6.59 kW
COP Tj = -7°C	3.10	2.20
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.39 kW	3.86 kW
COP Tj = +2°C	4.27	3.23
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.73 kW	2.57 kW
COP Tj = +7°C	5.99	4.57
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.23 kW	1.19 kW
COP Tj = 12°C	6.71	5.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.22 kW	7.49 kW
COP Tj = Tbiv	2.55	1.69
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.22 kW	7.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	23 W	23 W
PTO	22 W	22 W
PSB	23 W	23 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	3747 kWh	4541 kWh