

Subtype FUJITSU Waterstage High Power 16 3- phases

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	FUJITSU Waterstage High Power 16 3- phases
Registration number	012-C700307
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	20.05.2024
Testing basis	EN 14511:2013, EN 14825:2013, EN 16147:2011, EN 12102:2013
Testing laboratory	RISE Research Institutes of Sweden

Model FUJITSU Waterstage High Power 16 3-phases (WOYK160LCTA/WSYK160DG9)

Model name	FUJITSU Waterstage High Power 16 3-phases (WOYK160LCTA/WSYK160DG9)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	15.17 kW	12.24 kW
El input	3.70 kW	4.93 kW
COP	4.10	2.48

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.60 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

Model FUJITSU Waterstage High Power 16 3-phases Integrated DHW (WOYK160LCTA/WGYK160DG9)

Model name	FUJITSU Waterstage High Power 16 3-phases Integrated DHW (WOYK160LCTA/WGYK160DG9)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.30
Heating up time	0:46 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

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	15.17 kW	12.24 kW
El input	3.70 kW	4.93 kW
COP	4.10	2.48

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	149 %	117 %
Prated	13.60 kW	13.00 kW

SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.60 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh