

Subtype FUJITSU Waterstage Super High Power 16

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|---------------------|--|
| Certificate Holder | Groupe Atlantic |
| Address | Rue des Fondeurs BP 64 |
| ZIP | 59660 |
| City | Merville |
| Country | FR |
| Certification Body | RISE CERT |
| Subtype title | FUJITSU Waterstage Super High Power 16 |
| Registration number | 012-C700308 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 3.8 kg |
| Certification Date | 27.08.2024 |
| Testing basis | EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022 |
| Testing laboratory | RISE Research Institutes of Sweden |

Model FUJITSU Waterstage Super High Power 16 (WOYG160LJL/WSYG160DJ6)

| | |
|-------------------------------------|---|
| Model name | FUJITSU Waterstage Super High Power 16 (WOYG160LJL/WSYG160DJ6) |
| 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 | 1x230V 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 | 16.46 kW | 14.86 kW |
| El input | 3.94 kW | 5.65 kW |
| COP | 4.18 | 2.63 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------------------|-----------------|--------------------|
| η_s | 163 % | 125 % |
| P _{rated} | 16.10 kW | 13.60 kW |
| SCOP | 4.15 | 3.21 |
| T _{biv} | -7 °C | -7 °C |
| T _{OL} | -10 °C | -10 °C |
| P _{dh T_j} = -7 °C | 14.20 kW | 12.00 kW |
| COP T _j = -7 °C | 2.79 | 1.98 |
| C _{dh T_j} = -7 °C | 0.980 | 0.990 |
| P _{dh T_j} = +2 °C | 8.70 kW | 7.30 kW |
| COP T _j = +2 °C | 4.17 | 3.15 |
| C _{dh T_j} = +2 °C | 0.950 | 0.980 |

| | | |
|---|-------------|-------------|
| Pdh Tj = +7°C | 7.00 kW | 6.30 kW |
| COP Tj = +7°C | 5.34 | 4.30 |
| Cdh Tj = +7 °C | 0.920 | 0.970 |
| Pdh Tj = 12°C | 8.10 kW | 7.60 kW |
| COP Tj = 12°C | 6.76 | 5.99 |
| Cdh Tj = +12 °C | 0.920 | 0.960 |
| Pdh Tj = Tbiv | 14.20 kW | 12.00 kW |
| COP Tj = Tbiv | 2.79 | 1.98 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.54 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 19 W | 19 W |
| PTO | 100 W | 46 W |
| PSB | 23 W | 23 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 3.00 kW |
| Annual energy consumption Qhe | 8014 kWh | 8757 kWh |

Model FUJITSU Waterstage Super High Power 16 Integrated DHW (WOYG160LJL/WGYG160DJ6)

| | |
|-------------------------------------|---|
| Model name | FUJITSU Waterstage Super High Power 16 Integrated DHW (WOYG160LJL/WGYG160DJ6) |
| 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 | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 16147 | Average Climate

| | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{DHW} | 95 % |
| COP | 2.56 |
| Heating up time | 0:54 h:min |
| Standby power input | 48.0 W |
| Reference hot water temperature | 54.2 °C |
| Mixed water at 40°C | 248 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 | 16.46 kW | 14.86 kW |
| EI input | 3.94 kW | 5.65 kW |
| COP | 4.18 | 2.63 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 45 dB(A) | 45 dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 163 % | 125 % |
| Prated | 16.10 kW | 13.60 kW |

| | | |
|---|-------------|-------------|
| SCOP | 4.15 | 3.21 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.20 kW | 12.00 kW |
| COP Tj = -7°C | 2.79 | 1.98 |
| Cdh Tj = -7 °C | 0.980 | 0.990 |
| Pdh Tj = +2°C | 8.70 kW | 7.30 kW |
| COP Tj = +2°C | 4.17 | 3.15 |
| Cdh Tj = +2 °C | 0.950 | 0.980 |
| Pdh Tj = +7°C | 7.00 kW | 6.30 kW |
| COP Tj = +7°C | 5.34 | 4.30 |
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| Pdh Tj = 12°C | 8.10 kW | 7.60 kW |
| COP Tj = 12°C | 6.76 | 5.99 |
| Cdh Tj = +12 °C | 0.920 | 0.960 |
| Pdh Tj = Tbiv | 14.20 kW | 12.00 kW |
| COP Tj = Tbiv | 2.79 | 1.98 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.10 kW | 10.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.54 | 1.75 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 19 W | 19 W |
| PTO | 100 W | 46 W |
| PSB | 23 W | 23 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.00 kW | 3.00 kW |
| Annual energy consumption Qhe | 8014 kWh | 8757 kWh |