

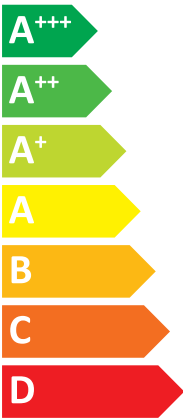


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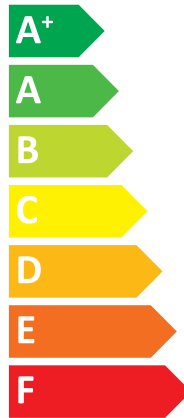
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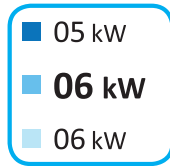
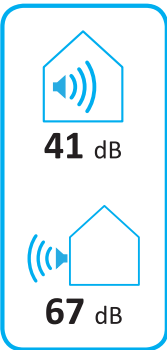
Indoor unit E*ST17/20D-*M2/6/9*D
Outdoor unit PXZ-4F75VG



A+



A+



2019

811/2013

DG79V456H02

| 1.SPAC HEATER | | For medium-temperature application | | | | | | | | | | | | | For low-temperature application | | | | | | | | | | | | |
|---------------|-------------|------------------------------------|--|--|---|---|---|---|---|--|--|--|--|--|---------------------------------|--|--|---|---|---|---|---|--|--|--|--|--|
| 1 | 2 | 3 | 6 | 8 | 11 | 9 | 13 | 15 | 16 | 21 | 22 | 17 | 18 | 25 | 4 | 6 | 8 | 11 | 9 | 13 | 15 | 16 | 21 | 22 | 17 | 18 | 25 |
| Outdoor unit | Indoor unit | Medium-temperature application | Seasonal space heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | For space heating, annual energy consumption under average climate conditions | Sound power level L _w , indoor | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | Sound power level L _w , outdoor | Low-temperature application | Seasonal space heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | For space heating, annual energy consumption under average climate conditions | Sound power level L _w , indoor | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | Sound power level L _w , outdoor |
| PXZ-4F75VG | EHSD-****D | ✓ | A+ | 6 | 113 | 4335 | 41 | 5 | 6 | 97 | 147 | 5136 | 2244 | 67 | ✓ | A++ | 6 | 154 | 3212 | 41 | 5 | 7 | 132 | 199 | 3805 | 1800 | 67 |
| | ERSD-****D | ✓ | A+ | 6 | 113 | 4335 | 41 | 5 | 6 | 97 | 147 | 5136 | 2244 | 67 | ✓ | A++ | 6 | 154 | 3212 | 41 | 5 | 7 | 132 | 199 | 3805 | 1800 | 67 |

| 2.COMBINATION HEATER | | For medium-temperature application | | | | | | | | | | | | | For low-temperature application | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------------|------------------------------------|----------------------|--|---------------------------------------|--|---|---|---|--|---|---------------------------------|---|---|--|--|--|--|--|--|---|---|--|-----------------------------|----------------------|--|---------------------------------------|--|---|---|---|--|---|---------------------------------|---|---|--|--|--|--|--|--|---|---|--|----|-----|----|
| 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | | |
| Outdoor unit | Indoor unit | Medium-temperature application | Decided load profile | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _w , indoor | Work only during off-peak hours | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For water heating, annual energy consumption under colder climate conditions | For water heating, annual energy consumption under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Water heating energy efficiency under colder climate conditions | Water heating energy efficiency under warmer climate conditions | Sound power level L _w , outdoor | Low-temperature application | Decided load profile | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual energy consumption under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L _w , indoor | Work only during off-peak hours | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For water heating, annual energy consumption under colder climate conditions | For water heating, annual energy consumption under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Water heating energy efficiency under colder climate conditions | Water heating energy efficiency under warmer climate conditions | Sound power level L _w , outdoor | | | |
| PXZ-4F75VG | EHST17D-****D | ✓ | L | A+ | A+ | 6 | 4335 | 936 | 113 | 117 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1256 | 776 | 97 | 147 | 86 | 144 | 67 | ✓ | L | A++ | A+ | 6 | 3212 | 936 | 154 | 117 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1256 | 776 | 132 | 199 | 86 | 144 | 67 |
| | ERST17D-****D | ✓ | L | A+ | A+ | 6 | 4335 | 936 | 113 | 117 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1256 | 776 | 97 | 147 | 86 | 144 | 67 | ✓ | L | A++ | A+ | 6 | 3212 | 936 | 154 | 117 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1256 | 776 | 132 | 199 | 86 | 144 | 67 |
| | EHST20D-****D | ✓ | L | A+ | A+ | 6 | 4335 | 922 | 113 | 124 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1573 | 784 | 97 | 147 | 71 | 149 | 67 | ✓ | L | A++ | A+ | 6 | 3212 | 922 | 154 | 124 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1573 | 784 | 132 | 199 | 71 | 149 | 67 |
| | ERST20D-****D | ✓ | L | A+ | A+ | 6 | 4335 | 922 | 113 | 124 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1573 | 784 | 97 | 147 | 71 | 149 | 67 | ✓ | L | A++ | A+ | 6 | 3212 | 922 | 154 | 124 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1573 | 784 | 132 | 199 | 71 | 149 | 67 |
| | EHST30D-****D | ✓ | XL | A+ | A | 6 | 4335 | 1530 | 113 | 118 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1835 | 1246 | 97 | 147 | 98 | 151 | 67 | ✓ | XL | A++ | A | 6 | 3212 | 1530 | 154 | 118 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1635 | 1246 | 132 | 199 | 98 | 151 | 67 |
| | ERST30D-****D | ✓ | XL | A+ | A | 6 | 4335 | 1530 | 113 | 118 | 41 | - | - | - | 5 | 6 | 5136 | 2244 | 1835 | 1246 | 97 | 147 | 98 | 151 | 67 | ✓ | XL | A++ | A | 6 | 3212 | 1530 | 154 | 118 | 41 | - | - | 5 | 7 | 3805 | 1800 | 1635 | 1246 | 132 | 199 | 98 | 151 | 67 |

| | | | | |
|--------------------------------|------------------------------|-----------------------------------|----------------------------------|-------------------------------|
| English | German | French | Italian | Spanish |
| Nederlands | Svenska | Данск | Português | Ελληνικά |
| suomi | Čeština | Български | Polski | Ελλάδα |
| Outdoor unit | Außeneinheit | unité extérieure | unidad exterior | Εξωτερική μονάδα |
| Unitenheit | Utlomsenhet | Unités enlhed | unidad exterior | Εξωτερική μονάδα |
| Ulkoyksykö | Vanhkovi jehonika | Външно тяло | jednostka zewnętrzna | Εξωτερική μονάδα |
| Indoor unit | Innengerät | unité intérieure | unità interna | Εσωτερική μονάδα |
| Indoor unit | Innenhaushat | Indoors enhed | unidad interior | Εσωτερική μονάδα |
| Sisäyksykö | Mediengerät | Вътрешно тяло | jednostka wewnętrzna | Εσωτερική μονάδα |
| Medium-temperature application | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| middle-temperature application | middletemperatureapplication | middletemperatureapplication | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| middle-temperature application | middletemperatureapplication | middletemperatureapplication | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 3 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 4 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 5 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 6 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 7 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 8 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 9 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 10 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 11 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 12 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 13 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 14 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 15 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 16 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 17 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 18 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 19 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 20 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 21 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 22 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 23 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 24 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |
| 25 | Mediengerät anwendung | Application à moyenne température | applicazione a media temperatura | Εφαρμογή μεσαίας θερμοκρασίας |

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|-----------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 113 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 5.4 | kW | Tj = -7 °C | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = +2 °C | COPd | 3.04 | - |
| Tj = +2 °C | Pdh | 3.6 | kW | Tj = +7 °C | COPd | 3.96 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 4.51 | - |
| Tj = +7 °C | Pdh | 2.3 | kW | Tj = bivalent temperature | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 1.33 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 4.5 | kW | Rated heat output (*) | Psup | 1.6 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Power consumption in modes other than active mode | | | | Off mode | | | |
| Off mode | P _{OFF} | 0.015 | kW | Thermostat-off mode | P _{TO} | 0.015 | kW |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Standby mode | P _{SB} | 0.015 | kW |
| Standby mode | P _{SB} | 0.015 | kW | Crankcase heater mode | P _{CK} | 0.000 | kW |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Other items | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 4335 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | Water heating energy efficiency | η_{wh} | 117 | % |
| Declared load profile | L | | | | | | |
| Daily electricity consumption | Q _{elec} | 4.260 | kWh | | | | |
| Annual electricity consumption | AEC | 936 | kWh | | | | |

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier:



Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 154 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 5.4 | kW | Tj = - 7 °C | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 4.08 | - |
| Tj = + 2 °C | Pdh | 3.3 | kW | Tj = + 7 °C | COPd | 5.07 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 5.51 | - |
| Tj = + 7 °C | Pdh | 2.2 | kW | Tj = bivalent temperature | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 2.31 | - |
| Tj = +12 °C | Pdh | 1.6 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 5.0 | kW | Rated heat output (*) | Psup | 1.1 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Other items | | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Capacity control | variable | | | | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 3212 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | Water heating energy efficiency | η_{wh} | 117 | % |
| Declared load profile | L | | | | | | |
| Daily electricity consumption | Q _{elec} | 4.260 | kWh | | | | |
| Annual electricity consumption | AEC | 936 | kWh | | | | |

Contact details

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The identification and signature of the person empowered to bind the supplier;

Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

The signature is signed in the average climate / medium-temperature section.

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 97 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 2.20 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 2.98 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 4.33 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 6.12 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 2.34 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.00 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 1.00 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 3.5 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Other items | | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Capacity control | variable | | | | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 5136 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-------------|----|---|
| For heat pump combination heater: | | | | Water heating energy efficiency | η_{wh} | 86 | % |
| Declared load profile | L | | | | | | |
| Daily electricity consumption | Q _{elec} | 5.710 | kWh | | | | |
| Annual electricity consumption | AEC | 1256 | kWh | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|---------|-------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 132 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 3.15 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 3.90 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 5.25 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = +12 °C | COPd | 6.73 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 3.30 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.69 | - |
| Tj = +12 °C | Pdh | 1.7 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 2.18 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | Power consumption in modes other than active mode | | | |
| Power consumption in modes other than active mode | | | | Rated heat output (*) | | | |
| Off mode | P _{OFF} | 0.015 | kW | Type of energy input | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Electrical | | | |
| Standby mode | P _{SB} | 0.015 | kW | Rated heat output (*) | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Type of energy input | | | |
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - 2562 m ³ /h | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 3805 | kWh | | | | |
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} 86 % | | | |
| Daily electricity consumption | Q _{elec} | 5.710 | kWh | | | | |
| Annual electricity consumption | AEC | 1256 | kWh | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 3805 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|--|--|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} 86 % | | | |
| Daily electricity consumption | Q _{elec} | 5.710 | kWh | | | | |
| Annual electricity consumption | AEC | 1256 | kWh | | | | |

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

The signature is signed in the average climate / medium-temperature section.

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.3 | kW | Seasonal space heating energy efficiency | η_s | 147 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | - | kW | Tj = - 7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = + 2 °C | COPd | 1.94 | - |
| Tj = + 2 °C | Pdh | 6.3 | kW | Tj = + 7 °C | COPd | 3.21 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = +12 °C | COPd | 5.16 | - |
| Tj = + 7 °C | Pdh | 4.1 | kW | Tj = bivalent temperature | COPd | 1.94 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = operation limit temperature (***) | COPd | 1.94 | - |
| Tj = +12 °C | Pdh | 1.8 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.3 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.3 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | | | | |
| Power consumption in modes other than active mode | | | | | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | | | | |
| Standby mode | P _{SB} | 0.015 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | dBA | | | |
| Annual energy consumption | Q _{HE} | 2244 | | kWh | | | |

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|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 144 | % | |
| Daily electricity consumption | Q _{elec} | 3.530 | kWh | | | | |
| Annual electricity consumption | AEC | 776 | kWh | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|---------|------|--|------------|-------|---------------------------------|
| Rated heat output (*) | Prated | 6.8 | kW | Seasonal space heating energy efficiency | η_s | 199 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | - | kW | Tj = - 7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = + 2 °C | COPd | 2.80 | - |
| Tj = + 2 °C | Pdh | 6.8 | kW | Tj = + 7 °C | COPd | 4.72 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 6.40 | - |
| Tj = + 7 °C | Pdh | 4.4 | kW | Tj = bivalent temperature | COPd | 2.80 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = operation limit temperature (***) | COPd | 2.80 | - |
| Tj = +12 °C | Pdh | 1.9 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.8 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.8 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Other items | | | |
| Power consumption in modes other than active mode | | | | Rated air flow rate, outdoors | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | 2562 | m ³ /h |
| Thermostat-off mode | P _{TO} | 0.015 | kW | For heat pump combination heater: | | | |
| Standby mode | P _{SB} | 0.015 | kW | Declared load profile | L | | Water heating energy efficiency |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Daily electricity consumption | Qelec | 3.530 | kWh |
| Other items | | | | Annual electricity consumption | AEC | 776 | kWh |
| Capacity control | variable | | | Contact details | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. | | | |
| Annual energy consumption | Q _{HE} | 1800 | | 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|--|-----------------------------------|---|------|---------------------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | For heat pump combination heater: | | | |
| Annual energy consumption | Q _{HE} | 1800 | | Declared load profile | L | | Water heating energy efficiency |

| | | | | | | | |
|-----------------------------------|-------|-------|-----|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | | | | |
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 144 | % |
| Daily electricity consumption | Qelec | 3.530 | kWh | | | | |
| Annual electricity consumption | AEC | 776 | kWh | | | | |

Contact details
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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 113 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 5.4 | kW | Tj = - 7 °C | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = + 2 °C | COPd | 3.04 | - |
| Tj = + 2 °C | Pdh | 3.6 | kW | Tj = + 7 °C | COPd | 3.96 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 4.51 | - |
| Tj = + 7 °C | Pdh | 2.3 | kW | Tj = bivalent temperature | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 1.33 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 4.5 | kW | Rated heat output (*) | Psup | 1.6 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | | | |
| Thermostat-off mode | | | | P _{TO} | | | |
| Standby mode | | | | P _{SB} | | | |
| Crankcase heater mode | | | | P _{CK} | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 4335 | kWh | | | | |

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|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 124 | % | |
| Daily electricity consumption | Q _{elec} | 4.190 | kWh | | | | |
| Annual electricity consumption | AEC | 922 | kWh | | | | |

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Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-------------------|---------|-------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 154 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 5.4 | kW | Tj = -7 °C | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +2 °C | COPd | 4.08 | - |
| Tj = +2 °C | Pdh | 3.3 | kW | Tj = +7 °C | COPd | 5.07 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 5.51 | - |
| Tj = +7 °C | Pdh | 2.2 | kW | Tj = bivalent temperature | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 2.31 | - |
| Tj = +12 °C | Pdh | 1.6 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 5.0 | kW | Rated heat output (*) | Psup | 1.1 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Power consumption in modes other than active mode | | | | Off mode | | | |
| Off mode | P _{OFF} | 0.015 | kW | Thermostat-off mode | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Standby mode | | | |
| Standby mode | P _{SB} | 0.015 | kW | Crankcase heater mode | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Other items | | | |
| Other items | | | | Capacity control | | | |
| Capacity control | variable | | | Rated air flow rate, outdoors | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | - | | | |
| Annual energy consumption | Q _{HE} | 3212 | kWh | 2562 m ³ /h | | | |
| For heat pump combination heater: | | | | Declared load profile | | | |
| Declared load profile | L | | | Water heating energy efficiency | | | |
| Daily electricity consumption | Q _{elec} | 4.190 | kWh | η_{wh} | 124 | % | |
| Annual electricity consumption | AEC | 922 | kWh | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|--|--|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | 2562 m ³ /h | | | |
| Annual energy consumption | Q _{HE} | 3212 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Declared load profile | | | |
| Declared load profile | L | | | Water heating energy efficiency | | | |
| Daily electricity consumption | Q _{elec} | 4.190 | kWh | η_{wh} | 124 | % | |
| Annual electricity consumption | AEC | 922 | kWh | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 97 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 2.20 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 2.98 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 4.33 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 6.12 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 2.34 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.00 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 1.00 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 3.5 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | | | |
| Thermostat-off mode | | | | P _{TO} | | | |
| Standby mode | | | | P _{SB} | | | |
| Crankcase heater mode | | | | P _{CK} | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 5136 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 71 | % | |
| Daily electricity consumption | Q _{elec} | 7.150 | kWh | | | | |
| Annual electricity consumption | AEC | 1573 | kWh | | | | |

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

The signature is signed in the average climate / medium-temperature section.

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 132 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 3.15 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 3.90 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 5.25 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = +12 °C | COPd | 6.73 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 3.30 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.69 | - |
| Tj = +12 °C | Pdh | 1.7 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 2.18 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | | | |
| Thermostat-off mode | | | | P _{TO} | | | |
| Standby mode | | | | P _{SB} | | | |
| Crankcase heater mode | | | | P _{CK} | | | |

Other items

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 3805 | kWh | | | | |

For heat pump combination heater:

| | | | | | | | |
|--------------------------------|-------------------|-------|-----|---------------------------------|-------------|----|---|
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 71 | % |
| Daily electricity consumption | Q _{elec} | 7.150 | kWh | | | | |
| Annual electricity consumption | AEC | 1573 | kWh | | | | |

Contact details

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700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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Tadashi SAITO

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Manager, Quality Assurance Department

THAILAND

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.3 | kW | Seasonal space heating energy efficiency | η_s | 147 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | - | kW | Tj = -7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = +2 °C | COPd | 1.94 | - |
| Tj = +2 °C | Pdh | 6.3 | kW | Tj = +7 °C | COPd | 3.21 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = +12 °C | COPd | 5.16 | - |
| Tj = +7 °C | Pdh | 4.1 | kW | Tj = bivalent temperature | COPd | 1.94 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = operation limit temperature (***) | COPd | 1.94 | - |
| Tj = +12 °C | Pdh | 1.8 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.3 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.3 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

Other items

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 2244 | kWh | | | | |

For heat pump combination heater:

| | | | | | | | |
|--------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 149 | % |
| Daily electricity consumption | Q _{elec} | 3.560 | kWh | | | | |
| Annual electricity consumption | AEC | 784 | kWh | | | | |

Contact details

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- (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
- (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | EHST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|---------|-------|--|-----------------|-------|------|
| Rated heat output (*) | Prated | 6.8 | kW | Seasonal space heating energy efficiency | η_s | 199 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | - | kW | Tj = - 7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = + 2 °C | COPd | 2.80 | - |
| Tj = + 2 °C | Pdh | 6.8 | kW | Tj = + 7 °C | COPd | 4.72 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 6.40 | - |
| Tj = + 7 °C | Pdh | 4.4 | kW | Tj = bivalent temperature | COPd | 2.80 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = operation limit temperature (***) | COPd | 2.80 | - |
| Tj = +12 °C | Pdh | 1.9 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.8 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.8 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Power consumption in modes other than active mode | | | |
| Power consumption in modes other than active mode | | | | Off mode | | | |
| Off mode | P _{OFF} | 0.015 | kW | Thermostat-off mode | P _{TO} | 0.015 | kW |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Standby mode | P _{SB} | 0.015 | kW |
| Standby mode | P _{SB} | 0.015 | kW | Crankcase heater mode | P _{CK} | 0.000 | kW |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Other items | | | |
| Other items | | | | Capacity control | | | |
| Capacity control | variable | | | Rated air flow rate, outdoors | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | - | | | |
| Annual energy consumption | Q _{HE} | 1800 | kWh | 2562 m ³ /h | | | |
| For heat pump combination heater: | | | | Declared load profile | | | |
| Declared load profile | L | | | Water heating energy efficiency | | | |
| Daily electricity consumption | Qelec | 3.560 | kWh | η_{wh} | 149 | % | |
| Annual electricity consumption | AEC | 784 | kWh | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|--|--|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | 2562 m ³ /h | | | |
| Annual energy consumption | Q _{HE} | 1800 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Declared load profile | | | |
| Declared load profile | L | | | Water heating energy efficiency | | | |
| Daily electricity consumption | Qelec | 3.560 | kWh | η_{wh} | 149 | % | |
| Annual electricity consumption | AEC | 784 | kWh | | | | |

Contact details
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 THAILAND

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 113 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 5.4 | kW | Tj = - 7 °C | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = + 2 °C | COPd | 3.04 | - |
| Tj = + 2 °C | Pdh | 3.6 | kW | Tj = + 7 °C | COPd | 3.96 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 4.51 | - |
| Tj = + 7 °C | Pdh | 2.3 | kW | Tj = bivalent temperature | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 1.33 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 4.5 | kW | Rated heat output (*) | Psup | 1.6 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-----|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dBA | | | | |
| Annual energy consumption | Q _{HE} | 4335 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 117 | % | |
| Daily electricity consumption | Q _{elec} | 4.260 | kWh | | | | |
| Annual electricity consumption | AEC | 936 | kWh | | | | |

Contact details
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Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 154 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 5.4 | kW | Tj = -7 °C | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +2 °C | COPd | 4.08 | - |
| Tj = +2 °C | Pdh | 3.3 | kW | Tj = +7 °C | COPd | 5.07 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 5.51 | - |
| Tj = +7 °C | Pdh | 2.2 | kW | Tj = bivalent temperature | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 2.31 | - |
| Tj = +12 °C | Pdh | 1.6 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 5.0 | kW | Rated heat output (*) | Psup | 1.1 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | | | | |
| Power consumption in modes other than active mode | | | | | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | | | | |
| Standby mode | P _{SB} | 0.015 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-----|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dBA | | | | |
| Annual energy consumption | Q _{HE} | 3212 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 117 | % | |
| Daily electricity consumption | Qelec | 4.260 | kWh | | | | |
| Annual electricity consumption | AEC | 936 | kWh | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 97 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 2.20 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 2.98 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 4.33 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = + 12 °C | COPd | 6.12 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 2.34 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.00 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 1.00 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 3.5 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-----|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dBA | | | | |
| Annual energy consumption | Q _{HE} | 5136 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 86 | % | |
| Daily electricity consumption | Q _{elec} | 5.710 | kWh | | | | |
| Annual electricity consumption | AEC | 1256 | kWh | | | | |

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

The signature is signed in the average climate / medium-temperature section.

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 132 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 3.15 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 3.90 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 5.25 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = +12 °C | COPd | 6.73 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 3.30 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.69 | - |
| Tj = +12 °C | Pdh | 1.7 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 2.18 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | | | | |
| Power consumption in modes other than active mode | | | | | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | | | | |
| Standby mode | P _{SB} | 0.015 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-----|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dBA | | | | |
| Annual energy consumption | Q _{HE} | 3805 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------|-------|-----|---------------------------------|----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 86 | % | |
| Daily electricity consumption | Qelec | 5.710 | kWh | | | | |
| Annual electricity consumption | AEC | 1256 | kWh | | | | |

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|-------------------|
| Rated heat output (*) | Prated | 6.3 | kW | Seasonal space heating energy efficiency | η_s | 147 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | - | kW | Tj = -7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = +2 °C | COPd | 1.94 | - |
| Tj = +2 °C | Pdh | 6.3 | kW | Tj = +7 °C | COPd | 3.21 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = +12 °C | COPd | 5.16 | - |
| Tj = +7 °C | Pdh | 4.1 | kW | Tj = bivalent temperature | COPd | 1.94 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = operation limit temperature (***) | COPd | 1.94 | - |
| Tj = +12 °C | Pdh | 1.8 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.3 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.3 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Other items | | | |
| Power consumption in modes other than active mode | | | | Rated air flow rate, outdoors | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | 2562 | m ³ /h |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Capacity control | | | |
| Standby mode | P _{SB} | 0.015 | kW | variable | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Sound power level, indoors/outdoors | | | |
| Other items | | | | L _{WA} | | | |
| Capacity control | | | | 41 / 67 | | | |
| Sound power level, indoors/outdoors | | | | Annual energy consumption | | | |
| Annual energy consumption | | | | Q _{HE} | | | |
| Annual energy consumption | | | | 2244 | | | |
| Annual energy consumption | | | | kWh | | | |

| | | | | | | | |
|---|-------------------|-------|-----|--|-------------|-----|---|
| For heat pump combination heater: | | | | | | | |
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 144 | % |
| Daily electricity consumption | Q _{elec} | 3.530 | kWh | Contact details | | | |
| Annual electricity consumption | AEC | 776 | kWh | MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. | | | |
| 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand | | | | | | | |

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Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST17D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | |
|--|----------|-------|------|--|------------|-------|------|-------|----|
| Rated heat output (*) | Prated | 6.8 | kW | Seasonal space heating energy efficiency | η_s | 199 | % | | |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | | |
| Tj = -7 °C | Pdh | - | kW | Tj = -7 °C | COPd | - | - | | |
| Degradation co-efficient (**) | Cdh | - | - | Tj = +2 °C | COPd | 2.80 | - | | |
| Tj = +2 °C | Pdh | 6.8 | kW | Tj = +7 °C | COPd | 4.72 | - | | |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 6.40 | - | | |
| Tj = +7 °C | Pdh | 4.4 | kW | Tj = bivalent temperature | COPd | 2.80 | - | | |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = operation limit temperature (***) | COPd | 2.80 | - | | |
| Tj = +12 °C | Pdh | 1.9 | kW | Operation limit temperature | TOL | -20 | °C | | |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C | | |
| Tj = bivalent temperature | Pdh | 6.8 | kW | Supplementary heater | | | | | |
| Tj = operation limit temperature (***) | Pdh | 6.8 | kW | Rated heat output (*) | Psup | 0.0 | kW | | |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Power consumption in modes other than active mode | | | | | |
| Off mode | | | | P _{OFF} | | | | 0.015 | kW |
| Thermostat-off mode | | | | P _{TO} | | | | 0.015 | kW |
| Standby mode | | | | P _{SB} | | | | 0.015 | kW |
| Crankcase heater mode | | | | P _{CK} | | | | 0.000 | kW |

| | | | | | | | |
|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | dBA | | | |
| Annual energy consumption | Q _{HE} | 1800 | | kWh | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 144 | % | |
| Daily electricity consumption | Q _{elec} | 3.530 | kWh | | | | |
| Annual electricity consumption | AEC | 776 | kWh | | | | |

Contact details
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 Manager, Quality Assurance Department
 THAILAND

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 113 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 5.4 | kW | Tj = - 7 °C | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = + 2 °C | COPd | 3.04 | - |
| Tj = + 2 °C | Pdh | 3.6 | kW | Tj = + 7 °C | COPd | 3.96 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 4.51 | - |
| Tj = + 7 °C | Pdh | 2.3 | kW | Tj = bivalent temperature | COPd | 1.57 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 1.33 | - |
| Tj = +12 °C | Pdh | 1.5 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 4.5 | kW | Rated heat output (*) | Psup | 1.6 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | | | |
| Thermostat-off mode | | | | P _{TO} | | | |
| Standby mode | | | | P _{SB} | | | |
| Crankcase heater mode | | | | P _{CK} | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | dBA | | | |
| Annual energy consumption | Q _{HE} | 4335 | | kWh | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | | | | |
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 124 | % |
| Daily electricity consumption | Q _{elec} | 4.190 | kWh | | | | |
| Annual electricity consumption | AEC | 922 | kWh | | | | |

Contact details
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Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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- (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
- (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|-----------------|-------|------|
| Rated heat output (*) | Prated | 6.1 | kW | Seasonal space heating energy efficiency | η_s | 154 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 5.4 | kW | Tj = -7 °C | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +2 °C | COPd | 4.08 | - |
| Tj = +2 °C | Pdh | 3.3 | kW | Tj = +7 °C | COPd | 5.07 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = +12 °C | COPd | 5.51 | - |
| Tj = +7 °C | Pdh | 2.2 | kW | Tj = bivalent temperature | COPd | 2.44 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = operation limit temperature (***) | COPd | 2.31 | - |
| Tj = +12 °C | Pdh | 1.6 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 5.4 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 5.0 | kW | Rated heat output (*) | Psup | 1.1 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -10 | °C | Power consumption in modes other than active mode | | | |
| Power consumption in modes other than active mode | | | | Off mode | | | |
| Off mode | P _{OFF} | 0.015 | kW | Thermostat-off mode | P _{TO} | 0.015 | kW |
| Thermostat-off mode | P _{TO} | 0.015 | kW | Standby mode | P _{SB} | 0.015 | kW |
| Standby mode | P _{SB} | 0.015 | kW | Crankcase heater mode | P _{CK} | 0.000 | kW |
| Crankcase heater mode | P _{CK} | 0.000 | kW | Other items | | | |

| | | | | | | |
|-------------------------------------|-----------------|---------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | | | |
| Annual energy consumption | Q _{HE} | 3212 | | | | |

| | | | | | | |
|-----------------------------------|-------------------|-------|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | | | |
| Declared load profile | L | | Water heating energy efficiency | η_{wh} | 124 | % |
| Daily electricity consumption | Q _{elec} | 4.190 | | | | |
| Annual electricity consumption | AEC | 922 | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 97 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 2.20 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 2.98 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 4.33 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = + 12 °C | COPd | 6.12 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 2.34 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.00 | - |
| Tj = + 12 °C | Pdh | 1.5 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 1.00 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 3.5 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | | | | |
| Power consumption in modes other than active mode | | | | | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | | | | |
| Standby mode | P _{SB} | 0.015 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | | | | |

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|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | dBA | | | |
| Annual energy consumption | Q _{HE} | 5136 | | kWh | | | |

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|-----------------------------------|-------------------|-------|-----|---------------------------------|----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 71 | % | |
| Daily electricity consumption | Q _{elec} | 7.150 | kWh | | | | |
| Annual electricity consumption | AEC | 1573 | kWh | | | | |

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 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|------------------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 5.2 | kW | Seasonal space heating energy efficiency | η_s | 132 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | 3.2 | kW | Tj = - 7 °C | COPd | 3.15 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = + 2 °C | COPd | 3.90 | - |
| Tj = + 2 °C | Pdh | 1.9 | kW | Tj = + 7 °C | COPd | 5.25 | - |
| Degradation co-efficient (**) | Cdh | 0.97 | - | Tj = + 12 °C | COPd | 6.73 | - |
| Tj = + 7 °C | Pdh | 1.8 | kW | Tj = bivalent temperature | COPd | 3.30 | - |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Tj = operation limit temperature (***) | COPd | 1.69 | - |
| Tj = + 12 °C | Pdh | 1.7 | kW | Tj = - 15 °C (if TOL < - 20 °C) | COPd | 2.18 | - |
| Degradation co-efficient (**) | Cdh | 0.94 | - | Operation limit temperature | TOL | -20 | °C |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW | Supplementary heater | | | |
| Tj = - 15 °C (if TOL < - 20 °C) | Pdh | 4.2 | kW | Rated heat output (*) | Psup | 5.2 | kW |
| Bivalent temperature | Tbiv | -7 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | -22 | °C | | | | |
| Power consumption in modes other than active mode | | | | | | | |
| Off mode | P _{OFF} | 0.015 | kW | | | | |
| Thermostat-off mode | P _{TO} | 0.015 | kW | | | | |
| Standby mode | P _{SB} | 0.015 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0.000 | kW | | | | |

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|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | dBA | | | |
| Annual energy consumption | Q _{HE} | 3805 | | kWh | | | |

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|-----------------------------------|-------------------|-------|-----|---------------------------------|----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 71 | % | |
| Daily electricity consumption | Q _{elec} | 7.150 | kWh | | | | |
| Annual electricity consumption | AEC | 1573 | kWh | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|---------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.3 | kW | Seasonal space heating energy efficiency | η_s | 147 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | - | kW | Tj = - 7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = + 2 °C | COPd | 1.94 | - |
| Tj = + 2 °C | Pdh | 6.3 | kW | Tj = + 7 °C | COPd | 3.21 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | Tj = +12 °C | COPd | 5.16 | - |
| Tj = + 7 °C | Pdh | 4.1 | kW | Tj = bivalent temperature | COPd | 1.94 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = operation limit temperature (***) | COPd | 1.94 | - |
| Tj = +12 °C | Pdh | 1.8 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.96 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.3 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.3 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | 0.015 | kW | |
| Thermostat-off mode | | | | P _{TO} | 0.015 | kW | |
| Standby mode | | | | P _{SB} | 0.015 | kW | |
| Crankcase heater mode | | | | P _{CK} | 0.000 | kW | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|--|-------------------------------|------|-------------------|--|
| Other items | | | | Rated air flow rate, outdoors | | | |
| Capacity control | variable | | | - | 2562 | m ³ /h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | | | | | |
| Annual energy consumption | Q _{HE} | 2244 | | | | | |

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|-----------------------------------|-------------------|-------|--|---------------------------------|-------------|-----|---|
| For heat pump combination heater: | | | | | | | |
| Declared load profile | L | | | Water heating energy efficiency | η_{wh} | 149 | % |
| Daily electricity consumption | Q _{elec} | 3.560 | | | | | |
| Annual electricity consumption | AEC | 784 | | | | | |

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---------------------------------------|---------------|------------------------------|
| Model(s): | Outdoor unit: | PXZ-4F75VG |
| | Indoor unit: | ERST20D-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | yes |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|----------|-------|------|--|------------|-------|------|
| Rated heat output (*) | Prated | 6.8 | kW | Seasonal space heating energy efficiency | η_s | 199 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | Pdh | - | kW | Tj = - 7 °C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | Tj = + 2 °C | COPd | 2.80 | - |
| Tj = + 2 °C | Pdh | 6.8 | kW | Tj = + 7 °C | COPd | 4.72 | - |
| Degradation co-efficient (**) | Cdh | 0.99 | - | Tj = +12 °C | COPd | 6.40 | - |
| Tj = + 7 °C | Pdh | 4.4 | kW | Tj = bivalent temperature | COPd | 2.80 | - |
| Degradation co-efficient (**) | Cdh | 0.98 | - | Tj = operation limit temperature (***) | COPd | 2.80 | - |
| Tj = +12 °C | Pdh | 1.9 | kW | Operation limit temperature | TOL | -20 | °C |
| Degradation co-efficient (**) | Cdh | 0.95 | - | Heating water operating limit temperature | WTOL | 55 | °C |
| Tj = bivalent temperature | Pdh | 6.8 | kW | Supplementary heater | | | |
| Tj = operation limit temperature (***) | Pdh | 6.8 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C | Type of energy input | Electrical | | |
| Reference design conditions for space heating | Tdesignh | 2 | °C | Power consumption in modes other than active mode | | | |
| Off mode | | | | P _{OFF} | | | |
| Thermostat-off mode | | | | P _{TO} | | | |
| Standby mode | | | | P _{SB} | | | |
| Crankcase heater mode | | | | P _{CK} | | | |

| | | | | | | | |
|-------------------------------------|-----------------|---------|-------|-------------------------------|---|------|-------------------|
| Capacity control | variable | | | Rated air flow rate, outdoors | - | 2562 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 67 | dB(A) | | | | |
| Annual energy consumption | Q _{HE} | 1800 | kWh | | | | |

| | | | | | | | |
|-----------------------------------|-------------------|-------|-----|---------------------------------|-----|---|--|
| For heat pump combination heater: | | | | Water heating energy efficiency | | | |
| Declared load profile | L | | | η_{wh} | 149 | % | |
| Daily electricity consumption | Q _{elec} | 3.560 | kWh | | | | |
| Annual electricity consumption | AEC | 784 | kWh | | | | |

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