



JunglePro Series

R32 DC Inverter Air Source Heat Pumps with Carel Controller



Multiple Modes for Comfortable Use



ERP A+++ Performance



Stable Running Ambient



Reduced Noise



WIFI Control



CAREL Controller



KEYMARK Certification



SG Ready





R32 Refrigerant

R32 refrigerant is an environmentally friendly refrigerant with low global warming potential and ozone depletion potential. Using R32 refrigerant in heat pump systems can improve operational performance and efficiency, reduce energy consumption and carbon emissions, and become a key element of sustainable development. Combined with the intelligent control system developed by SPRSUN and excellent product design, the advantages of R32 refrigerant are fully utilized to contribute to sustainable development.



High Heating Efficiency

The unit can operate at high frequency to heat water at a faster speed. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain temperature.




Product Service







47 dB
Sound Pressure (1m)

 20dB-Rustle of Leaves

 30dB-Whisper

 70dB-Car



* This data is from laboratory environmental testing.



Smart Control

The CAREL controller is able to record temperatures unaided using sensors that record the surrounding conditions. With the WIFI online monitoring, customers will enjoy contactless support from our customer service center no matter where they are.

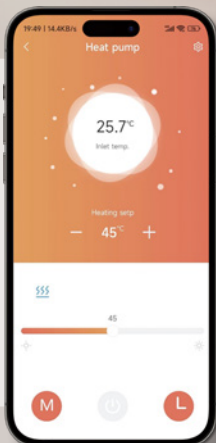


SPRSUN Smart Control System



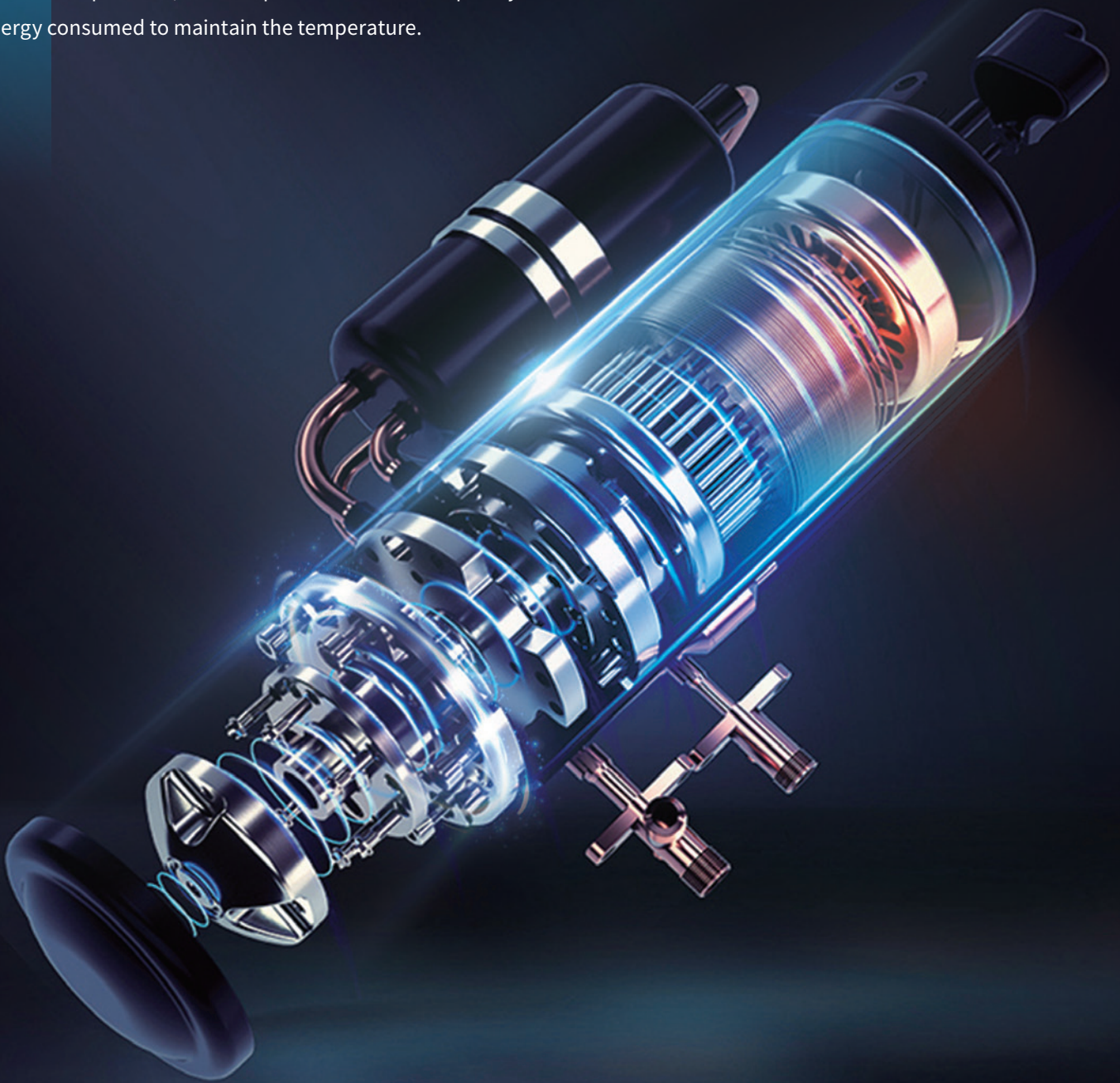
Working Principle

SPRSUN's self-developed smart control system is equipped with highly integrated control functions, which can be operated via a remote APP. The system is easy to manipulate, stable in performance, and is truly a smart operating system that realizes man-machine separation.



Heating in Low Temperature

Regulate heating and cooling using DC inverter compressors and DC inverter controllers; SPRSUN DC inverter heat pumps can operate at high frequency to heat water faster. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain the temperature.



Key Components

We believe that by joining hands and working together, we will be able to create greater value for our customers. We cooperate with leading companies such as Panasonic, CAREL, Grundfos, Copeland, MITSUBISHI, Schneider and SANYO to ensure upgraded product quality.



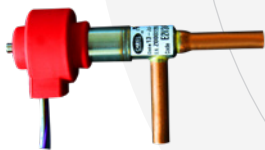
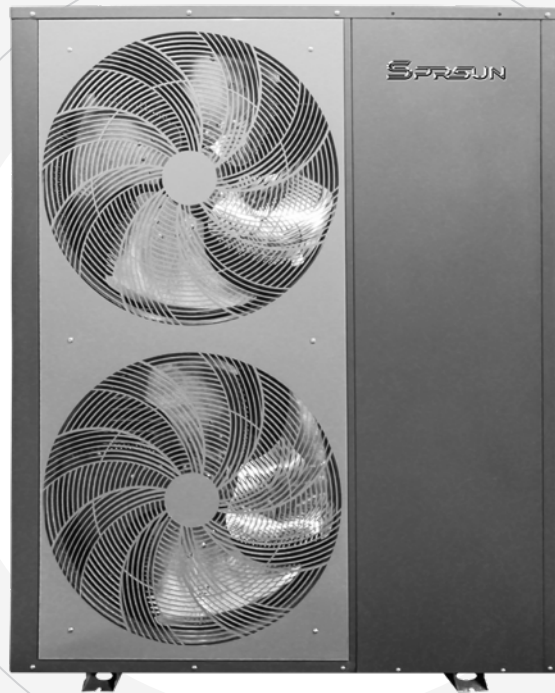
Controller
CAREL Controller



DC Fan
WOLONG Brushless DC Fan



Compressor
Panasonic Rotary Compressor



Expansion valve
CAREL Electronic Expansion valve



4-way valve
SANHUA



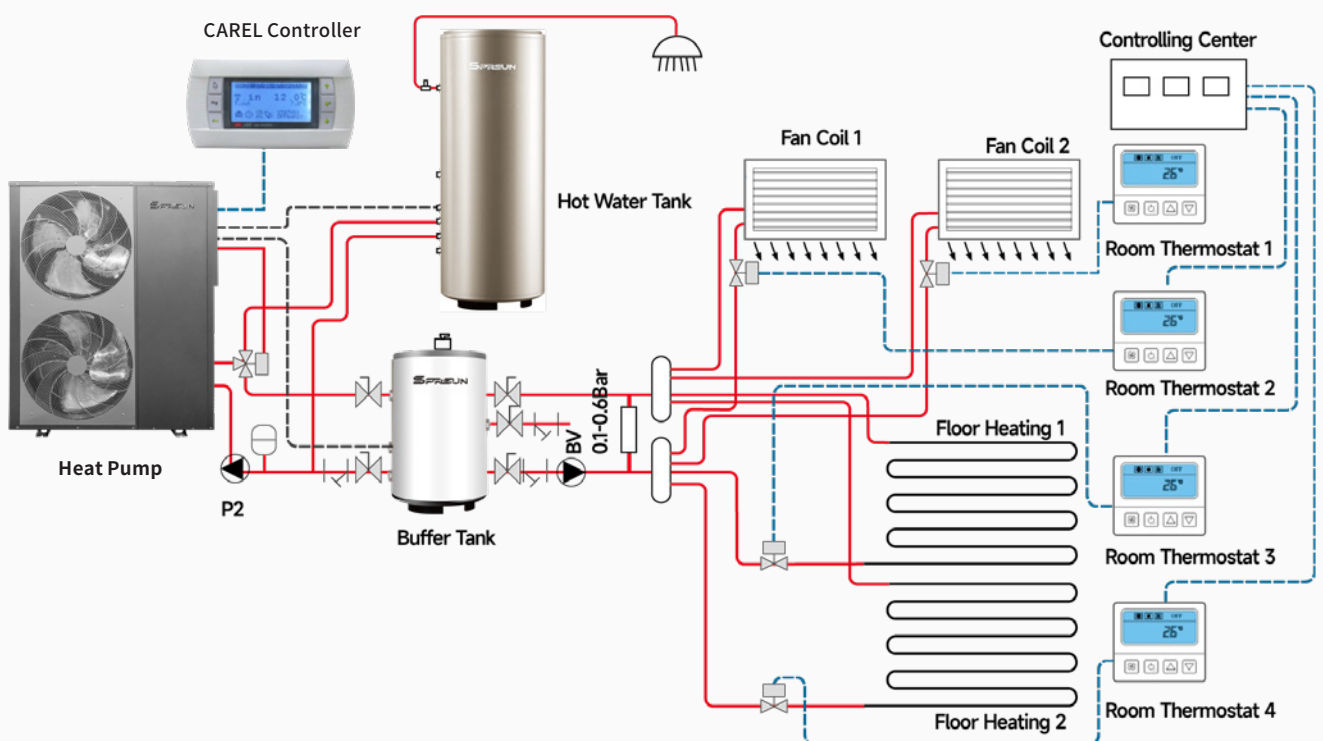
Pressure Sensor
CAREL Pressure Sensor



Installation Diagram

Notice:

1. Please select the right modes according to your demand, then install it according to the installation diagram. If only hot water function is required, please select heating+hot water mode and then put the hot water sensor into the hot water tank.
2. Two-way valve and BV valve are optional for installation. Only if you need to control the temperature in different zones, please install both.
3. Fan coil can be controlled by linkage with the secondary circulation pump. Meanwhile, a passive linkage thermostat shall be installed.



Specifications (220V)



| Model | | CGK015V3L | CGK025V3L | CGK030V3L | CGK040V3L | CGK050V3L | CGK060V3L |
|--|---------|---------------------------|--------------|--------------|---------------|---------------|---------------|
| Power Supply / Refrigerant | V/Hz/Ph | 220-240/50/1 - R32 | | | | | |
| Heating condition: water inlet/outlet temperature: 30°C /35°C , Ambient temperature: DB 7°C /WB 6°C ; | | | | | | | |
| Max. Heating Capacity | kW | 6 | 9.5 | 12 | 16 | 20 | 22 |
| C.O.P | W/W | 4.45 | 4.58 | 4.45 | 4.71 | 4.75 | 4.62 |
| Heating Capacity Min./Max. | kW | 2.76/6 | 4.37/9.5 | 5.52/12 | 7.36/16 | 9.2/20 | 10.12/22 |
| Heating Power Input Min./Max. | W | 496/1348 | 763/2074 | 992/2697 | 1250/3397 | 1549/4211 | 1752/4762 |
| C.O.P Min./Max. | W/W | 4.45/5.56 | 4.58/5.73 | 4.45/5.56 | 4.71/5.89 | 4.75/5.94 | 4.62/5.78 |
| Heating condition: water inlet/outlet temperature: 40°C /45°C , Ambient temperature: DB 7°C /WB 6°C ; | | | | | | | |
| Max. Heating Capacity | kW | 5.8 | 9.1 | 11.5 | 15.4 | 19.2 | 21.1 |
| C.O.P | W/W | 3.60 | 3.71 | 3.60 | 3.82 | 3.85 | 3.70 |
| Heating Capacity Min./Max. | kW | 2.65/5.76 | 4.20/9.12 | 5.30/11.52 | 7.07/15.36 | 8.83/19.20 | 9.72/21.12 |
| Heating power input Min./Max. | W | 627/1618 | 964/2489 | 1254/3236 | 1579/4076 | 1957/5053 | 2214/5714 |
| C.O.P Min./Max. | W/W | 3.56/4.23 | 3.66/4.35 | 3.56/4.23 | 3.77/4.47 | 3.80/4.51 | 3.70/4.39 |
| Cooling condition: water inlet/outlet temperature: 23°C /18°C , Ambient temperature: DB35°C /WB24°C ; | | | | | | | |
| Max. Cooling Capacity | kW | 5.5 | 8.7 | 10.9 | 14.6 | 18.2 | 20.1 |
| E.E.R | W/W | 3.50 | 3.60 | 3.50 | 3.70 | 3.73 | 3.59 |
| Cooling Capacity Min./Max. | kW | 2.52/5.47 | 3.99/8.66 | 5.03/10.94 | 6.71/14.59 | 8.39/18.24 | 9.23/20.06 |
| Cooling Power Input Min./Max. | W | 608/1852 | 935/2849 | 1215/3704 | 1531/4666 | 1897/5783 | 2146/6540 |
| E.E.R Min./Max. | W/W | 2.95/4.14 | 3.04/4.26 | 2.95/4.14 | 3.13/4.39 | 3.15/4.42 | 3.07/4.30 |
| Cooling condition: water inlet/outlet temperature: 12°C /7°C , Ambient temperature: DB35°C /WB24°C ; | | | | | | | |
| Max. Cooling Capacity | kW | 3.9 | 6.2 | 8.6 | 10.4 | 14.4 | 15.8 |
| E.E.R | W/W | 2.52 | 2.59 | 2.62 | 2.66 | 2.80 | 2.69 |
| Cooling Capacity Min./Max. | kW | 1.80/3.92 | 2.85/6.20 | 3.97/8.64 | 4.80/10.44 | 6.62/14.40 | 7.29/15.84 |
| Cooling Power Input Min./Max. | W | 494/1559 | 760/2399 | 1090/3440 | 1245/3929 | 1702/5371 | 1925/6075 |
| E.E.R Min./Max. | W/W | 2.51/3.65 | 2.58/3.75 | 2.51/3.65 | 2.66/3.86 | 2.68/3.89 | 2.61/3.79 |
| Rated Current | A | 6.5 | 9.9 | 12.9 | 16.3 | 20.1 | 22.8 |
| Max Power Input | kW | 2.0 | 3.0 | 3.9 | 4.9 | 6.1 | 6.9 |
| Max Current | A | 9.4 | 14.4 | 18.7 | 23.6 | 29.2 | 33.0 |
| Fuse or circuitbreakerer | A | 16A | 20A | 25A | 32A | 40A | 40A |
| Sound Pressure (1m) | dB(A) | / | 47 | 48 | 53 | 51 | 54 |
| Sound power Level | dB(A) | / | 61 | 63 | 68 | 67 | 70 |
| CO2 Equivalent | Ton | 0.675 | 1.0125 | 1.1475 | 1.4175 | 1.89 | 1.89 |
| ErP Level(35° C) | / | / | A+++ | | | | |
| Cabinet Type | / | Galvanized steel painting | | | | | |
| Net Dimension(L×D×H) | mm | 990*375*655 | 1110*475*810 | 1110*475*810 | 1110*475*960 | 1110*475*1355 | 1110*475*1355 |
| Packing Dimension(L×D×H) | mm | 1070*405*800 | 1200*540*970 | 1200*540*970 | 1200*540*1120 | 1200*540*1510 | 1200*540*1510 |
| Net Weight | Kg | 59 | 80 | 88 | 98 | 124 | 124 |
| Gross Weight | Kg | 80 | 108 | 116 | 126 | 161 | 161 |

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Specifications (380V)



| Model | | CGK-025V3L | CGK-030V3L | CGK-040V3L | CGK-050V3L | CGK-060V3L | CGK-080V3L | CGK-100V3L |
|--|---------|---------------------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Power Supply / Refrigerant | V/Hz/Ph | 380-420/50/3 - R32 | | | | | | |
| Heating condition: water inlet/outlet temperature: 30°C /35°C , Ambient temperature: DB 7°C /WB 6°C ; | | | | | | | | |
| Max. Heating Capacity | kW | 9.5 | 12 | 16 | 20 | 22 | 27 | 36 |
| C.O.P | W/W | 4.58 | 4.45 | 4.71 | 4.76 | 4.65 | 4.65 | 4.65 |
| Heating Capacity Min./Max. | kW | 4.37/9.5 | 5.52/12 | 7.36/16 | 9.2/20 | 10.12/22 | 12.42/27 | 16.56/36 |
| Heating Power Input Min./Max. | W | 763 /2074 | 992 /2697 | 1250 /3397 | 1546 /4202 | 1741 /4731 | 2137 /5806 | 2849 /7742 |
| C.O.P Min./Max. | W/W | 4.58/5.73 | 4.45/5.56 | 4.71/5.89 | 4.76/5.95 | 4.65/5.81 | 4.65/5.81 | 4.65/5.81 |
| Heating condition: water inlet/outlet temperature: 40°C /45°C , Ambient temperature: DB 7°C /WB 6°C ; | | | | | | | | |
| Max. Heating Capacity | kW | 9.1 | 11.5 | 15.4 | 19.2 | 21.1 | 25.9 | 34.6 |
| C.O.P | W/W | 3.71 | 3.60 | 3.82 | 3.81 | 3.60 | 3.60 | 3.60 |
| Heating Capacity Min./Max. | kW | 4.20 /9.12 | 5.30 /11.52 | 7.07 /15.36 | 8.83 /19.20 | 9.72 /21.12 | 11.92 /25.92 | 15.90 /34.56 |
| Heating power input Min./Max. | W | 964 /2489 | 1254 /3236 | 1579 /4076 | 1953 /5042 | 2199 /5677 | 2699 /6968 | 3599 /9290 |
| C.O.P Min./Max. | W/W | 3.66 /4.35 | 3.56 /4.23 | 3.77 /4.47 | 3.81 /4.52 | 3.72 /4.42 | 3.72 /4.42 | 3.72 /4.42 |
| Cooling condition: water inlet/outlet temperature: 23°C /18°C , Ambient temperature: DB35°C /WB24°C ; | | | | | | | | |
| Max. Cooling Capacity | kW | 8.7 | 10.9 | 14.6 | 18.2 | 20.1 | 24.6 | 32.8 |
| E.E.R | W/W | 3.60 | 3.50 | 3.70 | 3.69 | 3.50 | 3.50 | 3.50 |
| Cooling Capacity Min./Max. | kW | 3.99 /8.66 | 5.03 /10.94 | 6.71 /14.59 | 8.39 /18.24 | 9.23 /20.06 | 11.33 /24.62 | 15.10 /32.83 |
| Cooling Power Input Min./Max. | W | 935 /2849 | 1215 /3704 | 1531 /4666 | 1893 /5771 | 2132 /6498 | 2616 /7975 | 3489 /10634 |
| E.E.R Min./Max. | W/W | 3.04 /4.26 | 2.95 /4.14 | 3.13 /4.39 | 3.16 /4.43 | 3.09 /4.33 | 3.09 /4.33 | 3.09 /4.33 |
| Cooling condition: water inlet/outlet temperature: 12°C /7°C , Ambient temperature: DB35°C /WB24°C ; | | | | | | | | |
| Max. Cooling Capacity | kW | 6.2 | 8.6 | 10.4 | 14.4 | 15.8 | 19.4 | 25.9 |
| E.E.R | W/W | 2.59 | 2.62 | 2.66 | 2.77 | 2.62 | 2.62 | 2.62 |
| Cooling Capacity Min./Max. | kW | 2.85 /6.20 | 3.97 /8.64 | 4.80 /10.44 | 6.62 /14.40 | 7.29 /15.84 | 8.94 /19.44 | 11.92 /25.92 |
| Cooling Power Input Min./Max. | W | 760 /2399 | 1090 /3440 | 1245 /3929 | 1699 /5360 | 1913 /6036 | 2347 /7407 | 3130 /9876 |
| E.E.R Min./Max. | W/W | 2.58 /3.75 | 2.51 /3.65 | 2.66 /3.86 | 2.69 /3.90 | 2.62 /3.81 | 2.62 /3.81 | 2.62 /3.81 |
| Rated Current | A | 4.4 | 5.7 | 7.2 | 8.9 | 10.0 | 12.3 | 16.3 |
| Max Power Input | kW | 3.0 | 3.9 | 4.9 | 6.1 | 6.9 | 8.4 | 11.2 |
| Max Current | A | 6.3 | 8.3 | 10.4 | 12.9 | 14.5 | 17.8 | 23.7 |
| Fuse or circuitbreakerer | A | 13A | 13A | 16A | 20A | 20A | 25A | 32A |
| Sound Pressure (1m) | dB(A) | 47 | 49 | 52 | 48 | 53 | / | / |
| Sound power Level | dB(A) | 61 | 64 | 67 | 66 | 68 | / | / |
| CO2 Equivalent | Ton | 1.0125 | 1.1475 | 1.35 | 1.89 | 1.89 | / | / |
| ErP Level(35° C) | / | A+++ | | | | | / | / |
| Cabinet Type | / | Galvanized steel painting | | | | | | |
| Net Dimension(L×D×H) | mm | 1110*475*810 | 1110*475*810 | 1110*475*960 | 1110*475*1355 | 1110*475*1355 | 1110*475*1455 | 950*900*1950 |
| Packing Dimension(L×D×H) | mm | 1200*540*970 | 1220*540*970 | 1200*540*1120 | 1200*540*1510 | 1200*540*1510 | 1200*540*1610 | 1020*960*2125 |
| Net Weight | Kg | 80 | 88 | 98 | 124 | 124 | 160 | 270 |
| Gross Weight | Kg | 108 | 116 | 126 | 161 | 161 | 198 | 305 |

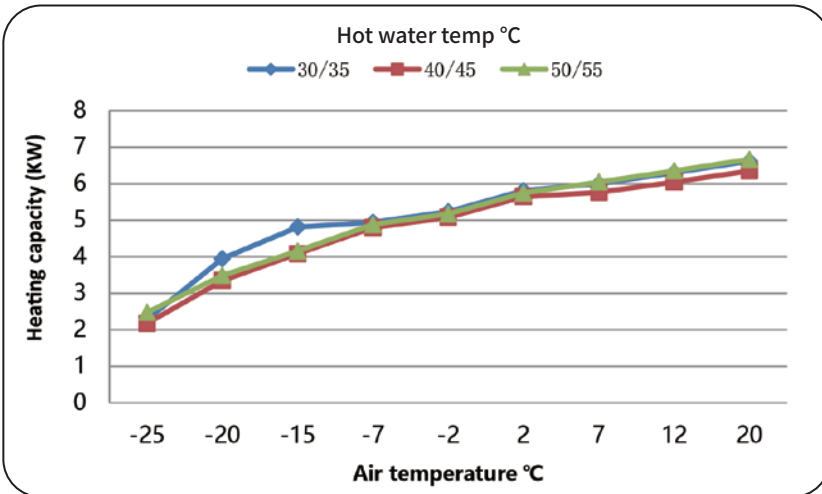
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CGK015V3L

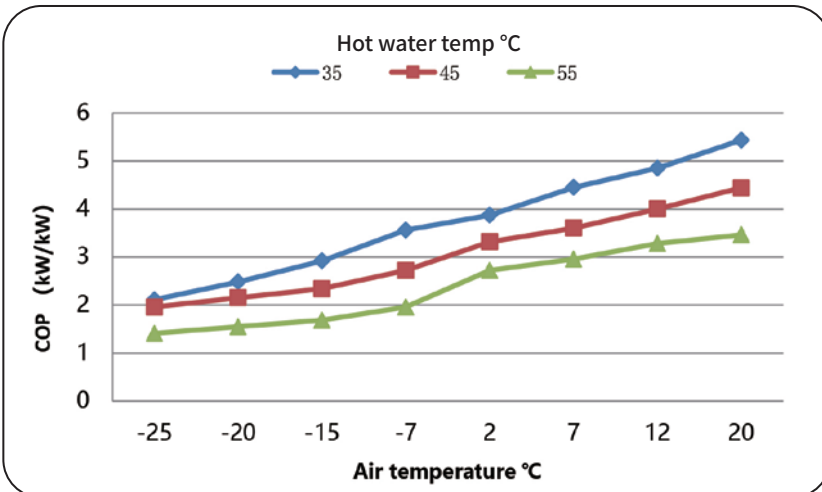
Heating Capacity at Different Conditions

CGK015V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 2.28 | 2.17 | 2.48 |
| -20 | 3.95 | 3.34 | 3.49 |
| -15 | 4.81 | 4.08 | 4.15 |
| -7 | 4.94 | 4.80 | 4.88 |
| -2 | 5.23 | 5.08 | 5.17 |
| 2 | 5.81 | 5.64 | 5.75 |
| 7 | 6.00 | 5.76 | 6.05 |
| 12 | 6.30 | 6.05 | 6.35 |
| 20 | 6.62 | 6.35 | 6.67 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK015V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.11 | 1.96 | 1.41 |
| -20 | 2.48 | 2.15 | 1.55 |
| -15 | 2.92 | 2.34 | 1.68 |
| -7 | 3.56 | 2.72 | 1.96 |
| 2 | 3.87 | 3.32 | 2.72 |
| 7 | 4.45 | 3.60 | 2.96 |
| 12 | 4.85 | 4.00 | 3.28 |
| 20 | 5.43 | 4.44 | 3.46 |
| Hot water temp °C | 35 | 45 | 45 |

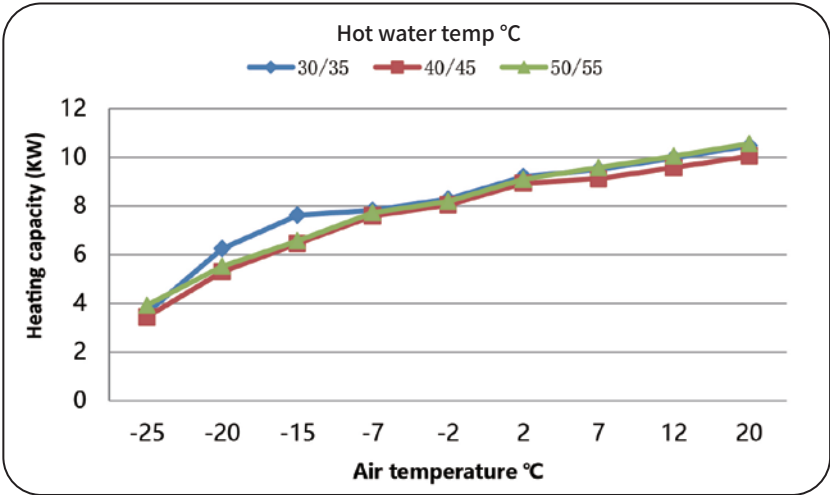
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CGK025V3L/CGK-025V3L

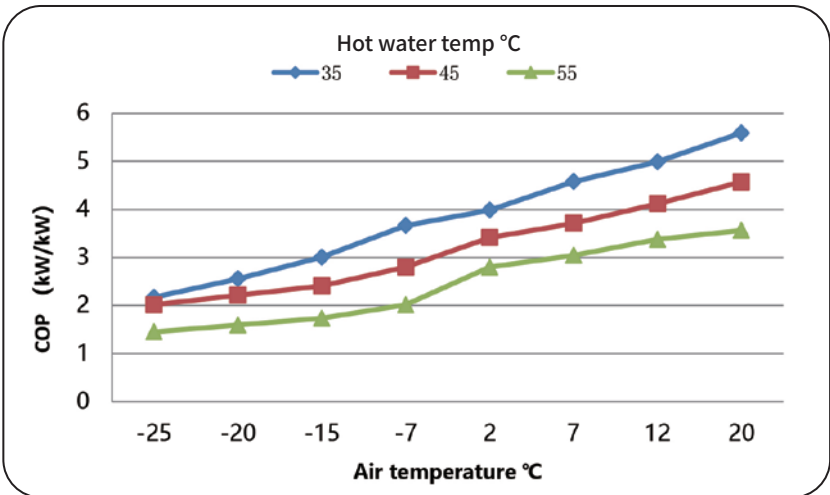
Heating Capacity at Different Conditions

CGK025V3L/CGK-025V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 3.61 | 3.44 | 3.92 |
| -20 | 6.25 | 5.30 | 5.52 |
| -15 | 7.62 | 6.46 | 6.57 |
| -7 | 7.82 | 7.60 | 7.73 |
| -2 | 8.29 | 8.04 | 8.19 |
| 2 | 9.21 | 8.94 | 9.10 |
| 7 | 9.50 | 9.12 | 9.58 |
| 12 | 9.98 | 9.58 | 10.05 |
| 20 | 10.47 | 10.05 | 10.56 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK025V3L/CGK-025V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.17 | 2.02 | 1.45 |
| -20 | 2.56 | 2.21 | 1.59 |
| -15 | 3.01 | 2.41 | 1.73 |
| -7 | 3.67 | 2.80 | 2.02 |
| 2 | 3.98 | 3.41 | 2.80 |
| 7 | 4.58 | 3.71 | 3.04 |
| 12 | 4.99 | 4.12 | 3.38 |
| 20 | 5.59 | 4.57 | 3.57 |
| Hot water temp °C | 35 | 45 | 45 |

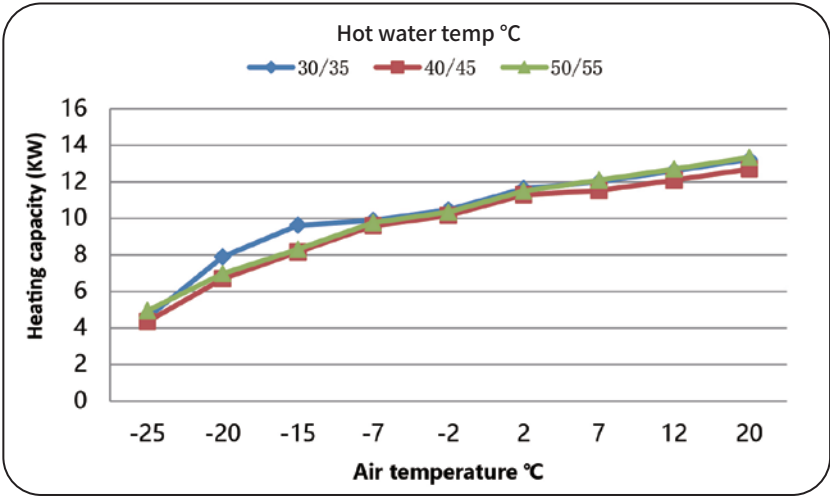
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CGK030V3L/CGK-030V3L

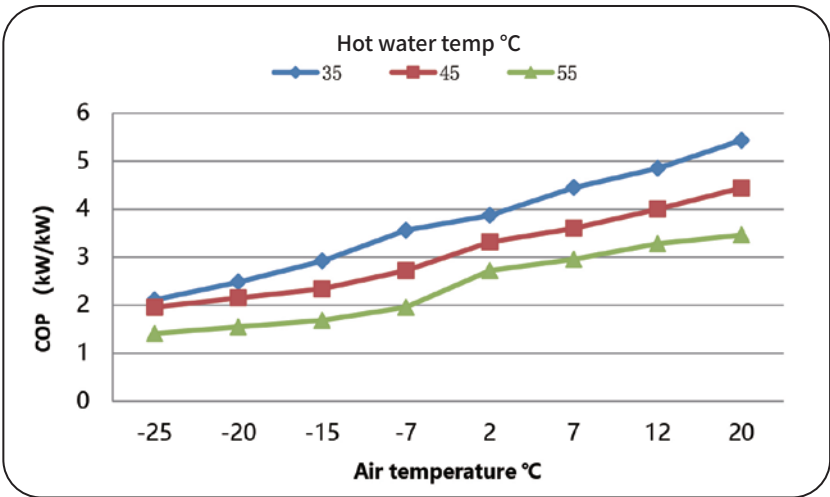
Heating Capacity at Different Conditions

CGK030V3L/CGK-030V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 4.56 | 4.35 | 4.95 |
| -20 | 7.89 | 6.69 | 6.97 |
| -15 | 9.62 | 8.16 | 8.30 |
| -7 | 9.88 | 9.60 | 9.77 |
| -2 | 10.47 | 10.16 | 10.34 |
| 2 | 11.63 | 11.29 | 11.49 |
| 7 | 12.00 | 11.52 | 12.10 |
| 12 | 12.60 | 12.10 | 12.70 |
| 20 | 13.23 | 12.70 | 13.34 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK030V3L/CGK-030V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.11 | 1.96 | 1.41 |
| -20 | 2.48 | 2.15 | 1.55 |
| -15 | 2.92 | 2.34 | 1.68 |
| -7 | 3.56 | 2.72 | 1.96 |
| 2 | 3.87 | 3.32 | 2.72 |
| 7 | 4.45 | 3.60 | 2.96 |
| 12 | 4.85 | 4.00 | 3.28 |
| 20 | 5.43 | 4.44 | 3.46 |
| Hot water temp °C | 35 | 45 | 45 |

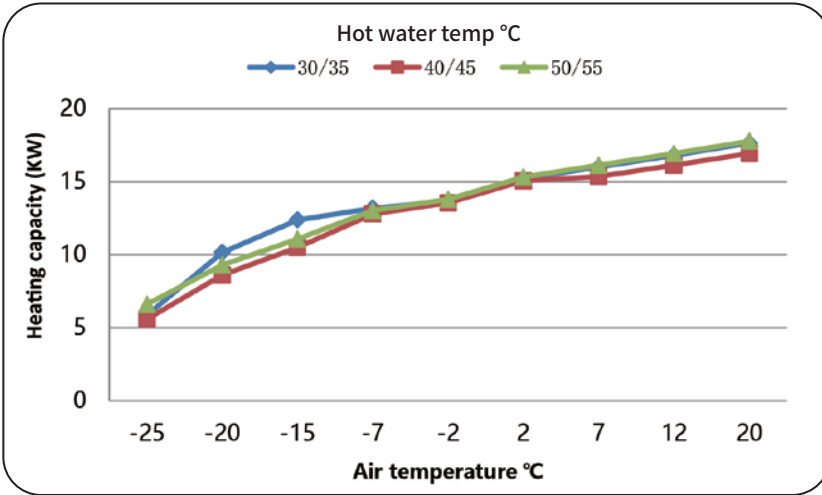
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CGK040V3L/CGK-040V3L

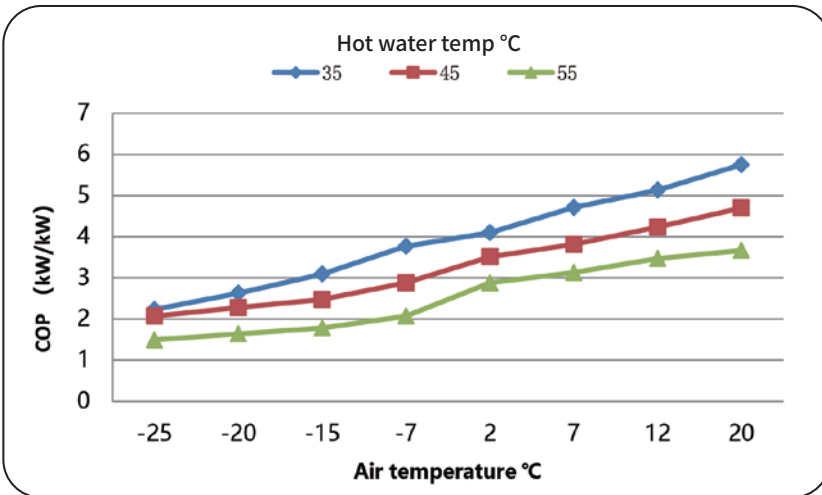
Heating Capacity at Different Conditions

CGK040V3L/CGK-040V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 5.87 | 5.59 | 6.60 |
| -20 | 10.15 | 8.60 | 9.30 |
| -15 | 12.38 | 10.49 | 11.07 |
| -7 | 13.18 | 12.79 | 13.02 |
| -2 | 13.68 | 13.55 | 13.79 |
| 2 | 15.20 | 15.05 | 15.32 |
| 7 | 16.00 | 15.36 | 16.13 |
| 12 | 16.80 | 16.13 | 16.93 |
| 20 | 17.64 | 16.93 | 17.78 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK040V3L/CGK-040V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.23 | 2.07 | 1.49 |
| -20 | 2.63 | 2.28 | 1.64 |
| -15 | 3.09 | 2.48 | 1.78 |
| -7 | 3.77 | 2.88 | 2.07 |
| 2 | 4.10 | 3.51 | 2.88 |
| 7 | 4.71 | 3.82 | 3.13 |
| 12 | 5.13 | 4.23 | 3.47 |
| 20 | 5.75 | 4.70 | 3.67 |
| Hot water temp °C | 35 | 45 | 45 |

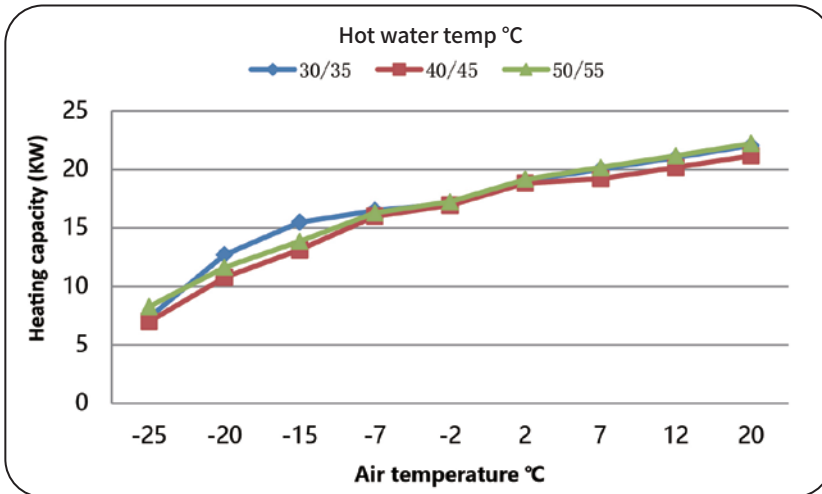
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CGK050V3L/CGK-050V3L

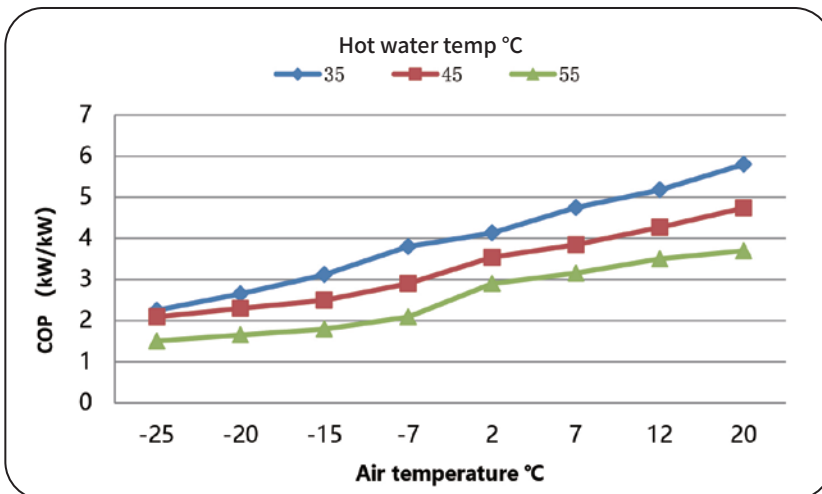
Heating Capacity at Different Conditions

CGK050V3L/CGK-050V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 7.34 | 6.99 | 8.25 |
| -20 | 12.69 | 10.75 | 11.62 |
| -15 | 15.48 | 13.11 | 13.84 |
| -7 | 16.47 | 15.99 | 16.28 |
| -2 | 17.10 | 16.93 | 17.24 |
| 2 | 19.00 | 18.82 | 19.15 |
| 7 | 20.00 | 19.20 | 20.16 |
| 12 | 21.00 | 20.16 | 21.17 |
| 20 | 22.05 | 21.17 | 22.23 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK050V3L/CGK-050V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.25 | 2.09 | 1.50 |
| -20 | 2.65 | 2.30 | 1.65 |
| -15 | 3.12 | 2.50 | 1.80 |
| -7 | 3.80 | 2.90 | 2.09 |
| 2 | 4.13 | 3.54 | 2.90 |
| 7 | 4.75 | 3.85 | 3.15 |
| 12 | 5.18 | 4.27 | 3.50 |
| 20 | 5.80 | 4.74 | 3.70 |
| Hot water temp °C | 35 | 45 | 45 |

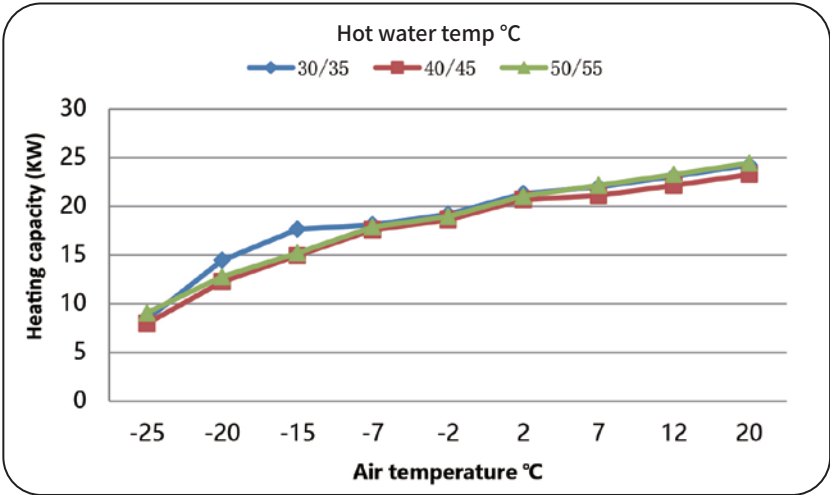
* The information in this document is just for reference. Since the continuous improvement and control in the production process, the information contained in this document may be subject to change. Please refer to the nameplate on the machine for model specifications.



CGK060V3L/CGK-060V3L

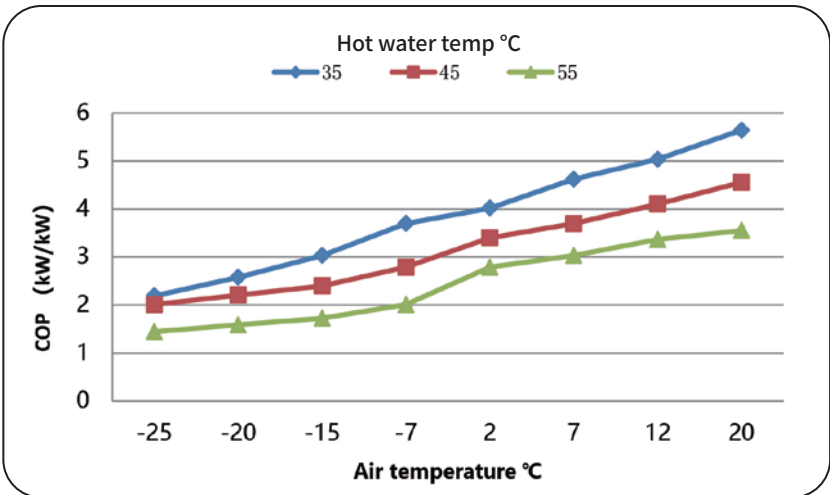
Heating Capacity at Different Conditions

CGK060V3L/CGK-060V3L Heating capacity



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|-------|-------|
| -25 | 8.37 | 7.97 | 9.08 |
| -20 | 14.47 | 12.26 | 12.79 |
| -15 | 17.65 | 14.95 | 15.22 |
| -7 | 18.12 | 17.59 | 17.91 |
| -2 | 19.19 | 18.63 | 18.96 |
| 2 | 21.32 | 20.70 | 21.07 |
| 7 | 22.00 | 21.12 | 22.18 |
| 12 | 23.10 | 22.18 | 23.28 |
| 20 | 24.26 | 23.28 | 24.45 |
| Hot water temp °C | 30/35 | 35/40 | 40/45 |

CGK060V3L/CGK-060V3L COP



| Air temp °C | Heating capacity (kW) | | |
|-------------------|-----------------------|------|------|
| -25 | 2.19 | 2.01 | 1.45 |
| -20 | 2.58 | 2.21 | 1.59 |
| -15 | 3.03 | 2.40 | 1.73 |
| -7 | 3.70 | 2.79 | 2.01 |
| 2 | 4.02 | 3.40 | 2.79 |
| 7 | 4.62 | 3.70 | 3.03 |
| 12 | 5.04 | 4.10 | 3.36 |
| 20 | 5.64 | 4.55 | 3.55 |
| Hot water temp °C | 35 | 45 | 45 |

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