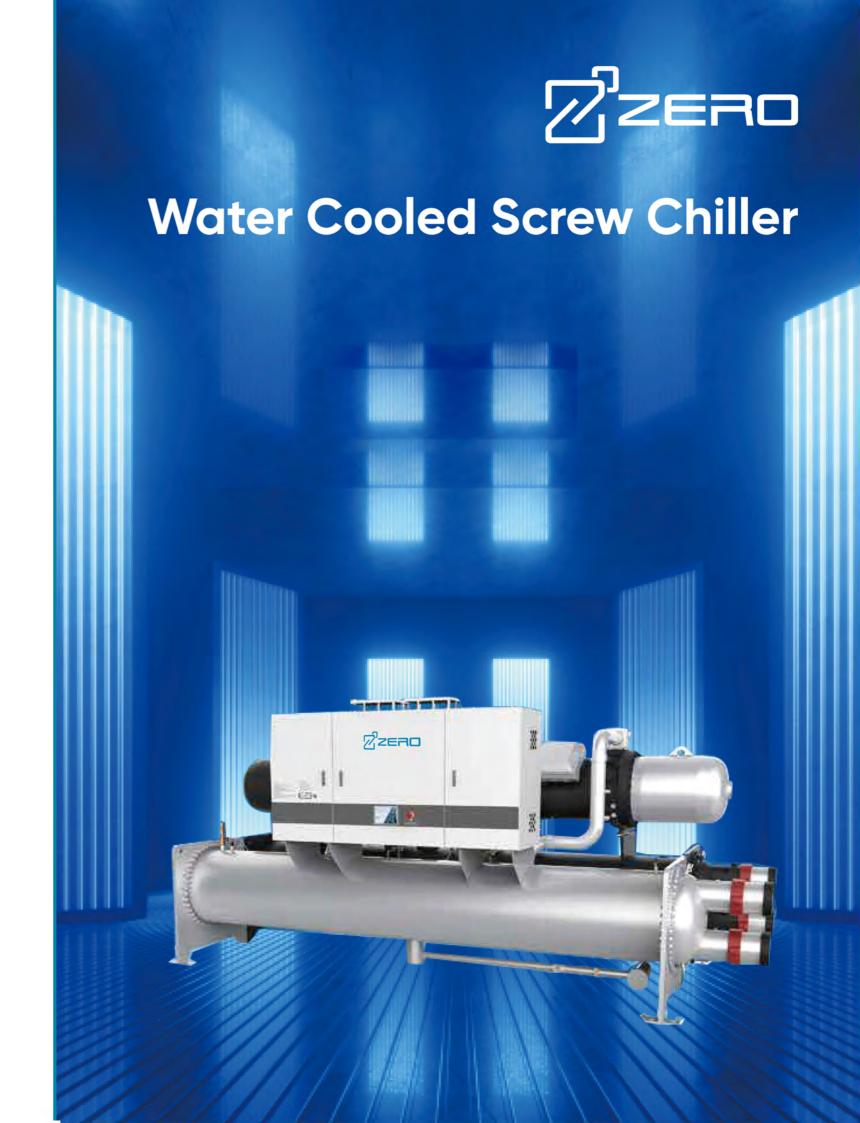


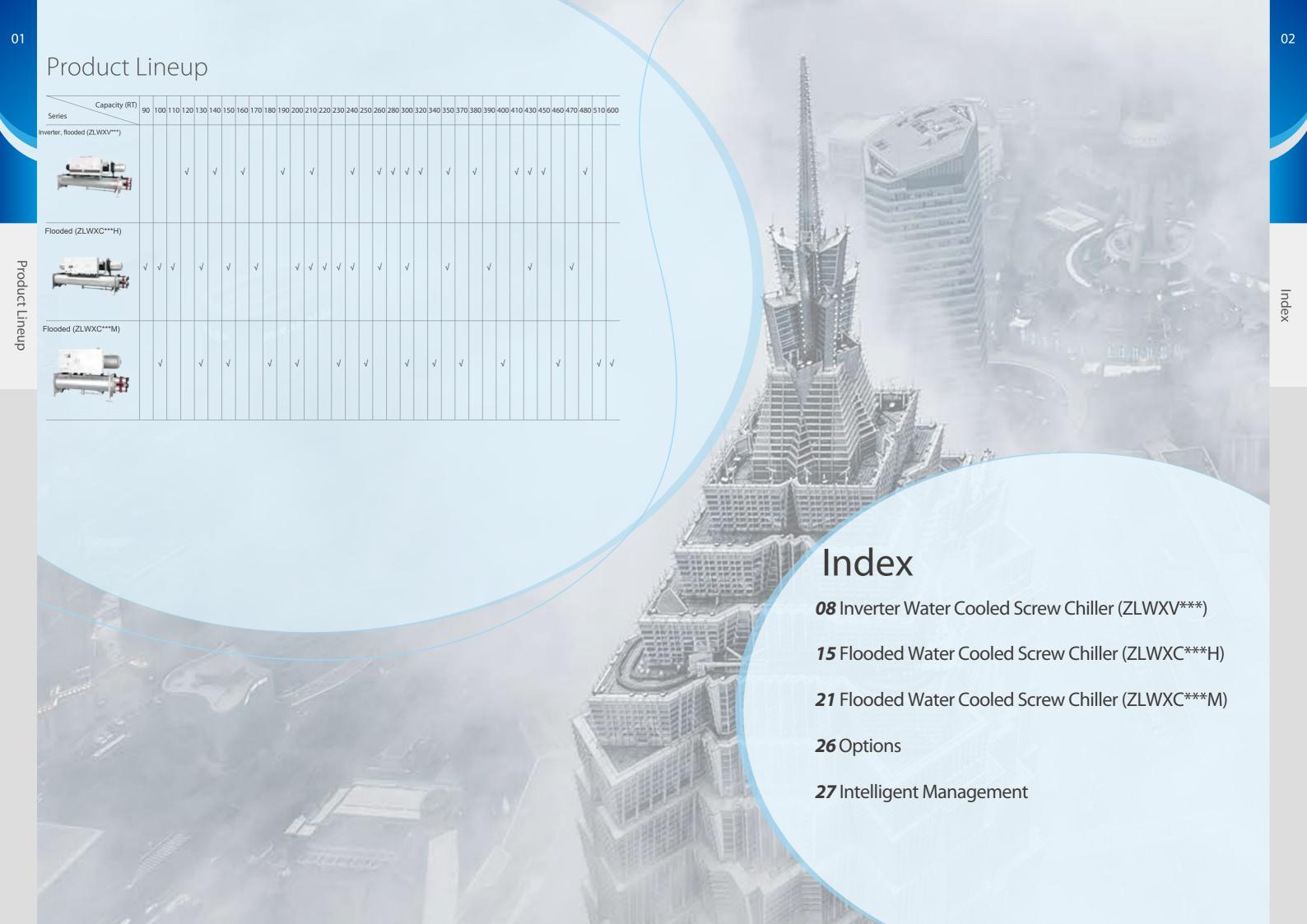


website: www.zerohvacr.com

E-mail: info@zerohvacr.com

Phone: 86-0756-3353530







#### **Features**

The full series of products are certified.

Certified in accoordance with the Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle Certification Program, which is based on Standard 500/590 (I-P) and Standard 551/591 (SI). Certified units may be found in Directory at www.ahridirectory.org

#### **Enclosed Motor Design**

- \* The motor is set at the compressor gas inlet and the adopted refrigerant cooling method works together with the unique inlet flow path design to ensure full cooling of the motor. The motor does not send out heat to the equipment room, so the heat dissipation of the chiller does not need to be considered for ventilation of the equipment room.
- The compressor motor adopts large capacity design and the motor directly drives the rotor to achieve very high efficiency.

#### Flooded Evaporator

High efficiency flooded evaporator, high heat exchange efficiency.

The water box at both ends can be disassembled to facilitate maintenance.

Optimized design of the refrigerant distributor can distribute refrigerant evenly, optimize the temperature field and improve the evaporation temperature, so as to improve the operating efficiency.

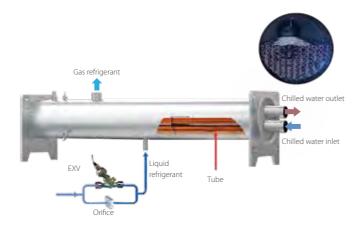
Optimized design of the baffle plate to avoid the compressor suction with liquid, improving the reliability of the unit.

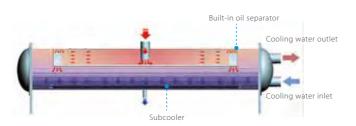
#### **New Condenser**

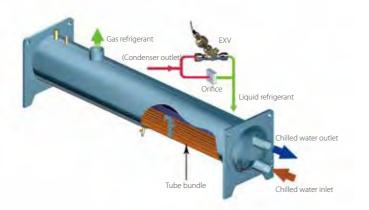
- \* It adopts the double-side reinforced condenser tube to optimize the tube bundle arrangement design in the
- The unique design of the built-in oil separator helps address the problem of lubricating oil separation.
- The product optimizes the subcooler design, improves the supercooling temperature and reduces the pressure loss of subcooler, improving heat exchange performance efficiency.
- This product implements uniform gas transmission without any heat transmission blind spots.

#### Accurate Cooling Capacity Control

- \* The unit features an electronic expansion valve and orifice plate to control the refrigerant for the evaporator and the water temperature accurately.
- The electronic expansion valve ischaracterized by quick response, rapid regulation and a large capacity adjust range.

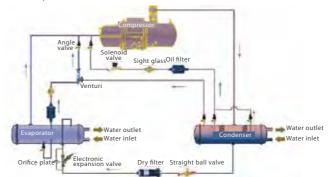




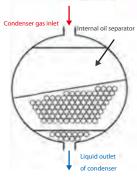


#### Reliable Oil System

ZERO water cooled screw chiller has an oil circuit control system that adopts leading technology, which ensures stable operation of the unit.







06

Water Cooled Screw Chiller

Advanced oil control system

Built-in three-stage oil separator for the compressor

Built-in oil separator for the condenser

#### Oil supply

This system features a differential pressure-type oil supply. All the moving parts in the compressor can stay well lubricated without an external oil pump.

#### Oil return

- \* The first oil separation: The compressor is provided with a three-stage oil separator to ensure low oil content.
- \* The second oil separation: The built-in high efficiency oil separator for the condenser controls the oil separation efficiency to a value above 99.99%, enabling the system to realize normal oil return under both partial load and full load, ensuring reliable and stable operation of the system and increasing the unit operating range.
- Double oil return system: This system adopts oil return through oil separation and Venturi injection. Oil return is implemented through the Venturi tube injection of high pressure gas and oil is not stored in the evaporator. An oil heater is set in the unit. The control system preheats the lubricating oil according to the unit's status to maintain optimal viscosity, optimizing the lubrication function. The external oil filter can be replaced easily.

#### Multiple Guarantees

#### Intelligent control of unit safety

The system monitors the unit parameter's changing trends and progressively adjusts the operating status of the unit to ensure

#### Powerful protection function for improved safety

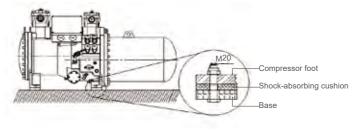
The unit is provided with powerful protection measures to improve operation safety and reliability.

#### Strict factory test

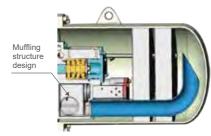
All the units have undergone strict testing before delivery. Only the water pipe and power supply need to be connected during installation.

#### **Quiet Operation**

- The sound level is as low as 65 dB(A) when the unit operates with a partial load.
- \* A standard shock-absorbing cushion is configured between the compressor foot and the metal support, achieving a good damping effect.
- \* The built-in discharge muffler for the compressor cuts off transmission from the sound source.

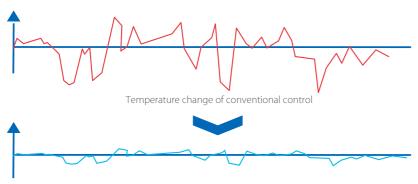






Built-in discharge muffler design for compressor

### Intelligent Control



Temperature change in prospective control

- Intelligent load control: Real-time load changes are predicted according to historical data and the real-time load is prospectively revised to avoid frequent fluctuations in the unit water temperature.
- Safe and intelligent unit control: The system monitors the trends of change in the unit's parameters and adjusts the operating status of the unit as necessary to ensure safe operation.
- Intelligent failure response: When the unit fails, in addition to executing the corresponding protective measures, the fault parameters are recorded for manual inspection and troubleshooting.

#### Interface Display

Controller: MIC

Interface display: 7-inch touch screen

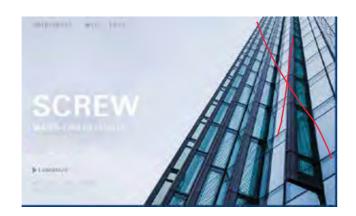
Communication interface: RS485

Communication protocol: Modbus-RTU

Protection measures: more than 20 protection

measures including the power supply, compressor,

pressure and temperature.

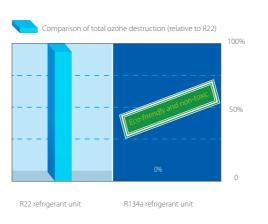


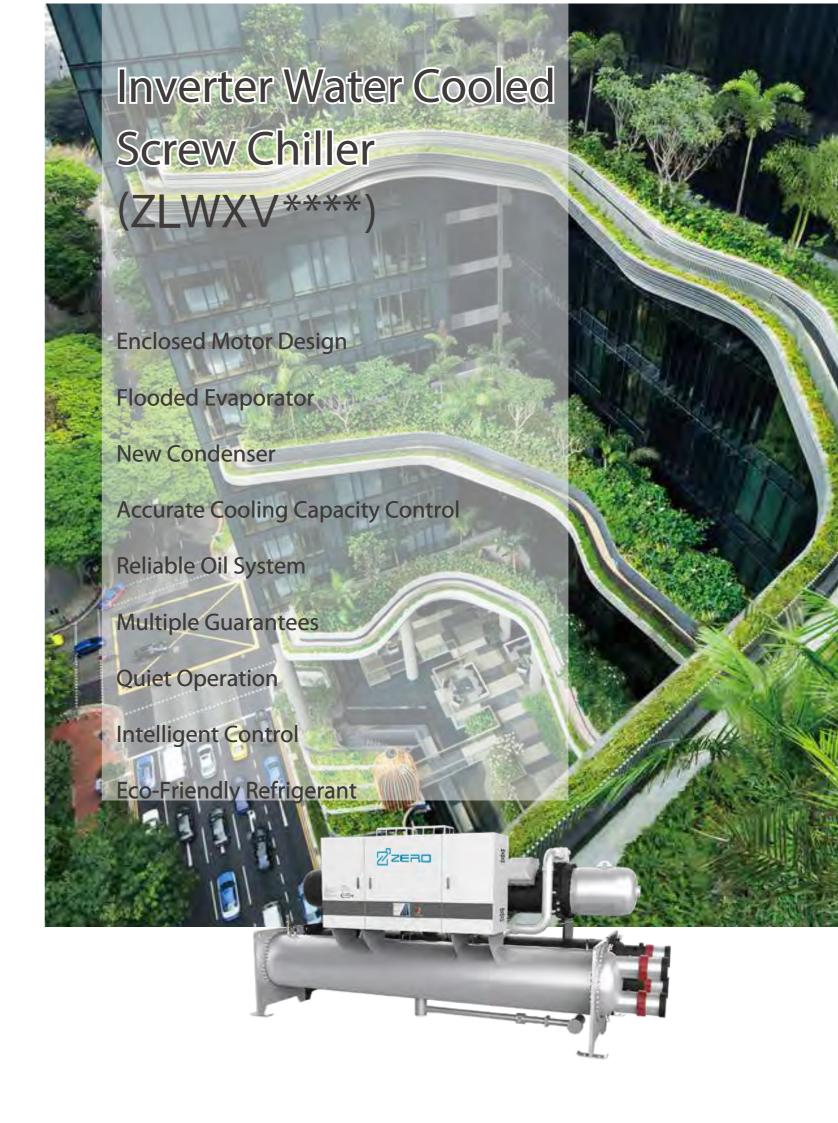
Note: The interface and display content vary with each model. Please refer to the actual product.

#### **Eco-Friendly Refrigerant**

R134a eco-friendly refrigerant achieves high cooling efficiency, without depleting the ozone layer. The refrigerant complies with the Montreal Protocol.







#### Vi Optimizing Inverter Technology of **ZERO**'s Independently-developed Inverter Twin Screw

ZERO's independently-developed volume ratio optimization control technology integrates the characteristic curves of a compressor, inverter, motor and maximizes the performance and reliability of the inverter screw compressor. The maximum isentropic efficiency is 76%, far higher than other adjustment methods.











Loading

The motor speed increases and the slide valve looks for the best Vi position. The built-in algorithm then analyzes the operating parameters online, optimizes to adjust the slide valve position, motor speed and first lifts the slide valve. Then, the motor speed matches the load accurately.







The motor slows and the slide valve looks for the best Vi position. The built-in algorithm then reduction analyzes the operating parameters online, optimizes to adjust the position of the slide valve, motor speed and first lowers the slide valve. Then the slide valve assists in energy regulation.

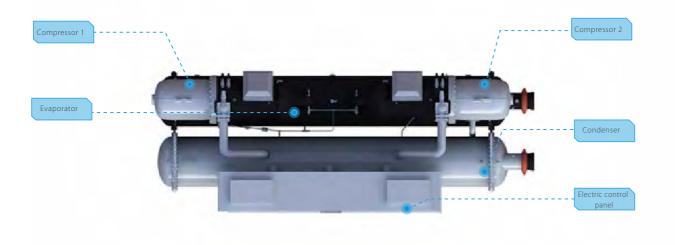




position. The motor stops after its speed reaches the minimum setting value.

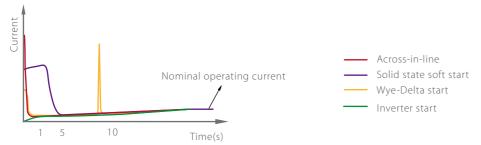
#### Parallel Dual Compressor Design

The dual-compressor unit is designed with the parallel system of double compressors and the total heat exchange area is used to greatly improve the operation efficiency when the single compressor operates. (Customization of non-parallel system accepted)



#### No Impact of the Power Grid

This product utilizes inverter start with a smooth starting current of less than the Wye-Delta starting current, without any current impact, which prolongs the service life of motor.

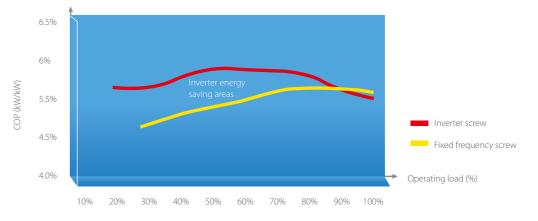


#### Energy Saving Principle of Inverter Adjust

The inverter screw unit regulates the cooling capacity by reducing the frequency. The COP of the partial load is better than the fixed frequency unit, which greatly enhances the energy efficiency.

10

Inverter Water Cooled Screw Chiller

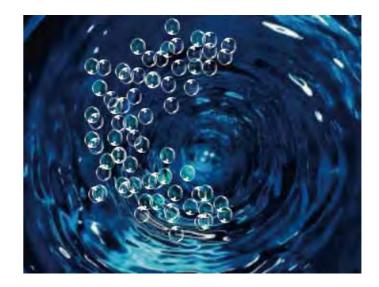


Note: Let's use 7/32°C operating conditions as an example.

#### Accurate Control

Innovative swirl orifice plate throttling technology:

- \* The flow resistance increases when the gas content of refrigerant is high before the orifice plate, which greatly improves the cooling capacity attenuation caused by hot gas bypass under the partial load.
- \* When the condensation pressure is low and the refrigerant in front of the orifice plate is liquid, the liquid flow rate can be accelerated to increase the liquid pply.



#### Product Structure

◆ Electric control panel 
◆ Flexible sinking design has made a breakthrough in the single plane shape, featuring a lively and futuristic

Providing auto-diagnosis, adjustment, security protection, remote control and other functions

This product features a double-sided

einforced high-efficiency condense

tube to further improve heat

exchange efficiency

7-inch colorful touch screen • Easy-to-read unit status; convenient to operate and

Water inlet and outlet located

Easy installation, cleaning and

n the same side

The compressor screw rotor adopts a new profile. Enclosed motor design and motor is cooled by refrigerant.

Specially designed liquid

equalization plate to optimize the

temperature field and achieve optimal heat exchange efficiency

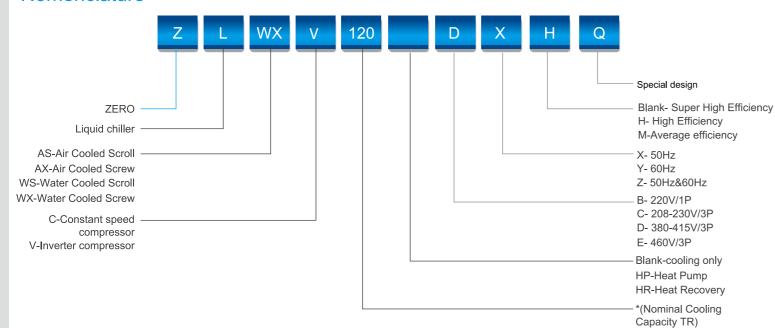
# Zzeno \_ | |

#### Nomenclature

Lifting hole retained to make

Lifting hole •

handling convenient



#### Specifications

| Model  |   |  | 71 \\/\/\   | V120DX   | ZLWXV   | 140DV  | ZLWXV  | 160DY  | 71 \\/\/\   | /190DX   | 71 \\/\/\   | /210DX   | ZLWXV   | ZANDV   | / // // // // // // // // // // // // /        | XV260DX   | 71 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \     | XV280D)  |
|--|---|--|---|--|---|--|--|--|---|--|---|--|---|---|--|---|---|--|
|  |   | RT   |   | 8.9  | 138   |  | 158  |  |   | 9.7  | 20  |  | 236   |   |  | 52.3  |   | 7.3  |
| Cooling capacity   |   | kW   |   | 8.2  | 488   |  | 558  |  |   | 7.2  | 71  |  | 83  |   |  | B7.1  |   | 4.9  |
| Power input  |   | kW   |   | 1.53   | 84.   |  | 92.  |  |   | 11.1   |   | 9.5  |   | 8.7   |  | 47.0  |   | 63   |
| COP  |   | W/W  |   | 511  | 5.7   |  | 6.0  |  | 6.0   |  | 5.9   |  | 5.9   |   |  | 033   |   | 983  |
| IPLV   |   | W/W  |   | 572  | 8.9   |  | 9.3  |  |   | )43  | 9.2   |  | 9.2   |   |  | 868   |   | 901  |
|  |   | Qty  | -   |  | 1   |  | 1  |  |   | 1  | ,   |  | 1   |   |  | 2   |   | 2  |
|  |   | Type   |   |  |   |  |  |  |   |  | metic scre  |  |   |   |  |   |   |  |
| Compressor   |   | Starting   |   |  |   |  |  |  |   |  |   | w compr  | C3301   |   |  |   |   |  |
|  |   | method   |   |  |   |  |  |  |   |  | Inverter  |  |   |   |  |   |   |  |
| Capacity adjust range  |   |  |   |  |   |  |  |  | Single cor  | mpresser   | 15%-100%  | , Dual co  | mpressor  | 8%-1009   | %  |   |   |  |
| Pofrigorant  | Туре  | /  |   |  |   |  |  |  |   |  | R134a   |  |   |   |  |   |   |  |
| Refrigerant  | Charge amount   | kg   | 1   | 10   | 12  | 20   | 14   | 40   | 1.  | 50   | 10  | 50   | 17  | 70  |  | 240   | 2-  | 45   |
| Power supply   | ,   | '  |   |  |   |  |  |  |   | 38   | 0V-3Ph-50   | Hz   |   |   |  |   |   |  |
| Compressor number  |   |  | 1   | #  | 1:  | #  | 1  | #  | 1   | #  | 1   | #  | 1:  | #   | 1#   | 2#  | 1#  | 2#   |
| Rated current  |   | А  | 12  | 1.8  | 138   | 3.2  | 151  | 1.3  | 18  | 1.5  | 19  | 5.2  | 226   | 6.5   | 95.6   | 144.6   | 106.0                                       | 160.2  |
| Max. operating current   |   | A  | 15  | 4.3  | 206   | 5.1  | 206  | 6.1  | 22  | 8.3  | 24  | 5.8  | 272   | 2.6   | 154.3  | 228.3   | 154.3                                       | 228.3  |
| Starting current   |   | A  |   | 21.8   | <13   |  |  | 51.3   |   | 81.5   |   | 95.2   |   | 26.5  | <95.6  | <144.6  | <106.0                                      | <160   |
|  | Water flow  | m³/h   |   | 1.61   | 75.   |  | 86.  |  |   | 3.1  | 11  |  |   | 8.5   |  | 37.1  |   | 0.6  |
| Evaporator   | Pressure drop   | kPa  |   | 0.0  | 39  |  | 41   |  |   | 9.5  | 40  |  | 40  |   |  | 52.7  |   | 4.8  |
|  | Water pipe connection   | mm   |   | N150   |   | 150  | DN   |  |   | 1150   |   | 200  |   | 1200  | D  | N200  | DN  | 1200   |
|  | Water flow  | m³/h   |   | .52  | 94.   |  | 107  |  |   | 8.9  | 13  |  |   | 0.6   |  | 71.2  |   | 8.4  |
| Condenser  | Pressure drop   | kPa  |   | 0.5  | 57  |  | 57   |  |   | 0.7  | 51  |  | 58  |   | 37.7   |   |   | 0.2  |
|  | Water pipe connection   | mm   |   | V150   |   | 150  |  | 1150   |   | 1200   |   | 1200   |   | 1200  | DN200  |   |   | 1200   |
|  | Length  | mm   |   | 713  | 27  |  | 27   |  |   | 738  |   | 70   |   | 970   |  |   |   | 130  |
| Unit dimension   | Width   | mm   |   | 380  | 13  |  | 13   |  |   | 500  |   | 00   |   | 500   | 4430<br>1610                                   |   |   | 510  |
| orne diriterision  | Height  | mm   |   | 996  | 19  |  | 19   |  |   | 096  |   | 196  |   | )96   |  | 163   |   | 163  |
| Shipping weight  | rieignt   |  |   | 470  | 29  |  | 30   |  |   | 270  | 33  |  |   | 172   |  | 910   |   | 945  |
| Running weight   |   | kg   |   | 520  | 31  |  | 31   |  |   | 190  | 35  |  |   | 722   |  | 280   |   | 335  |
| naming weight  |   | kg   |   | 320  | 31  | 12   | 31   | //   | 3-  | +90  | 3.  | 7 1  | 37  | 22  |  | 200   |   | ,,,,   |
| Model  |   |  | SCWI  | F300EV   | SCWF3   | 320EV  | SCWF   | 350EV  | SCWF  | F380EV   | SCWF  | 410EV  | SCWF  | 430EV   | SCW  | F450EV  | SCWI  | F480EV   |
|  |   |  |   |  |   |  |  |  |   |  |   |  |   |   |  |   |   |  |
|  |   | RT   | 29  | 5.5  | 311   | .5   | 342  | 2.4  | 37  | 78.5   | 40  | 9.0  | 42  | 9.0   |  |   |   | 71.1   |
| Cooling capacity   |   | RT<br>kW   | 29  |  | 311<br>109  |  | 342<br>120   |  |   | 78.5<br>331  |   | 9.0  | 429   |   |  | 42.8<br>557   |   | 71.1<br>556  |
|  |   | kW   |   | 43   | 109   | )5   | 120  | 04   | 13  | 331  | 14  | 38   | 15  | 09  | 1  | 557   | 16  | 556  |
| Power input  |   | kW<br>kW   | 10-<br>17-  | 43<br>4.1  | 109<br>180  | .2   | 120  | 0.5  | 13  | 331  | 14  | 9.5  | 15  | 52  | 1  | 557<br>57.7   | 16  | 556<br>76.6  |
| Power input<br>COP   |   | kW<br>kW<br>W/W  | 10·<br>17·<br>5.9   | 43<br>4.1<br>87  | 109<br>180<br>6.07  | .2<br>76   | 120<br>200<br>6.0  | 0.5  | 13<br>22<br>6.0   | 331<br>20.1<br>047   | 14<br>23<br>6.0   | 9.5<br>004   | 15<br>25<br>5.9   | 09<br>52<br>985   | 1 2 6  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 556<br>76.6<br>988   |
| Cooling capacity  Power input  COP  IPLV   |   | kW<br>kW<br>W/W<br>W/W   | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87  | 109<br>180<br>6.07<br>9.08  | 76<br>34   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.6  | 331<br>20.1<br>047<br>603  | 14<br>23<br>6.0<br>9.5  | 9.5<br>004   | 15<br>25<br>5.9<br>9.5  | 09<br>52<br>985<br>509  | 1 2 6  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 76.6<br>988<br>651   |
| Power input COP  |   | kW<br>kW<br>W/W<br>W/W<br>Qty  | 10·<br>17·<br>5.9   | 43<br>4.1<br>87  | 109<br>180<br>6.07  | 76<br>34   | 120<br>200<br>6.0  | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.6  | 331<br>20.1<br>047   | 14<br>23<br>6.0<br>9.5  | 9.5<br>004   | 15<br>25<br>5.9   | 09<br>52<br>985<br>509  | 1 2 6  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 556<br>76.6<br>988   |
| Power input COP  |   | kW kW W/W W/W Qty Type   | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87  | 109<br>180<br>6.07<br>9.08  | 76<br>34   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.6  | 331<br>20.1<br>047<br>603  | 14<br>23<br>6.0<br>9.5  | 9.5<br>904<br>555<br>2   | 15<br>25<br>5.9<br>9.5  | 09<br>52<br>985<br>509  | 1 2 6  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 556<br>76.6<br>988<br>651  |
| Power input COP  |   | kW<br>kW<br>W/W<br>W/W<br>Qty  | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87  | 109<br>180<br>6.07<br>9.08  | 76<br>34   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.6  | 331<br>20.1<br>047<br>603  | 14<br>23<br>6.0<br>9.5  | 9.5<br>904<br>555<br>2   | 15<br>25<br>5.9<br>9.5  | 09<br>52<br>985<br>509  | 1 2 6  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 556<br>76.6<br>988<br>651  |
| Power input COP IPLV Compressor  |   | kW kW W/W W/W Qty Type Starting  | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87  | 109<br>180<br>6.07<br>9.08  | 76<br>34   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.0  | 331<br>20.1<br>2047<br>503<br>2  | 14<br>23<br>6.0<br>9.5  | 9.5<br>9.5<br>904<br>555<br>2  | 15<br>25<br>5.9<br>9.5  | 609<br>52<br>885<br>609<br>2                                      | 6 9  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 76.6<br>988<br>651   |
| Power input COP IPLV  Compressor  Capacity adjust range  | Type  | kW kW W/W W/W Qty Type Starting  | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87  | 109<br>180<br>6.07<br>9.08  | 76<br>34   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003   | 13<br>22<br>6.0<br>9.0  | 331<br>20.1<br>2047<br>503<br>2  | 14<br>23<br>6.0<br>9.5  | 9.5<br>9.5<br>904<br>555<br>2  | 15<br>25<br>5.9<br>9.5  | 609<br>52<br>885<br>609<br>2                                      | 6 9  | 557<br>57.7<br>.043   | 16<br>27<br>5.9                             | 76.6<br>988<br>651   |
| Power input COP IPLV  Compressor  Capacity adjust range  | Type<br>Charge amount   | kW kW W/W W/W Qty Type Starting method                                       | 10-<br>17-<br>5.9<br>9.2  | 43<br>4.1<br>87<br>13  | 109<br>180<br>6.07<br>9.08  | 76<br>84   | 120<br>200<br>6.0<br>9.5   | 04<br>0.5<br>003<br>613<br>2   | 13<br>22<br>6.0<br>9.0<br>Single  | 331<br>20.1<br>2047<br>503<br>2  | 14<br>23<br>6.0<br>9.5<br>Inverter<br>sser 15%-1<br>R134a                                       | 9.5<br>9.5<br>904<br>555<br>2  | 15<br>25<br>5.9<br>9.5<br>2                                     | 609<br>52<br>885<br>609<br>2                                      | 1 2 6 6 9 9 100%                               | 557<br>57.7<br>.043   | 16<br>27<br>5.1<br>9.4                      | 76.6<br>988<br>651   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant   |   | kW kW W/W W/W Qty Type Starting method                                       | 10-<br>17-<br>5.9<br>9.2<br>2   | 43<br>4.1<br>87<br>13  | 109<br>180<br>6.07<br>9.08<br>2   | 76<br>84   | 12(<br>200<br>6.0<br>9.5<br>2  | 04<br>0.5<br>003<br>613<br>2   | 13<br>22<br>6.0<br>9.0<br>Single  | 831<br>20.1<br>2047<br>603<br>2  | 14<br>23<br>6.0<br>9.5<br>Inverter<br>sser 15%-1<br>R134a                                       | 9.5<br>904<br>555<br>2   | 15<br>25<br>5.9<br>9.5<br>2                                     | 909<br>52<br>985<br>609<br>2                                      | 1 2 6 6 9 9 100%                               | 557<br>57.7<br>.043<br>.536<br>2  | 16<br>27<br>5.1<br>9.4                      | 556<br>76.6<br>988<br>651<br>2   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply   |   | kW kW W/W W/W Qty Type Starting method                                       | 10-<br>17-<br>5.9<br>9.2<br>2   | 43<br>4.1<br>87<br>13  | 109<br>180<br>6.07<br>9.08<br>2   | 76<br>84   | 12(<br>200<br>6.0<br>9.5<br>2  | 04<br>0.5<br>003<br>613<br>2   | 13<br>22<br>6.0<br>9.0<br>Single  | 831<br>20.1<br>2047<br>603<br>2  | 14<br>23<br>6.0<br>9.5<br>Inverter<br>sser 15%-1<br>R134a                                       | 9.5<br>904<br>555<br>2   | 15<br>25<br>5.9<br>9.5<br>2                                     | 909<br>52<br>985<br>609<br>2                                      | 1 2 6 6 9 9 100%                               | 557<br>57.7<br>.043<br>.536<br>2  | 16<br>27<br>5.1<br>9.4                      | 556<br>76.6<br>988<br>651<br>2   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  |   | kW kW W/W W/W Qty Type Starting method                                       | 100<br>17:<br>5.9<br>9.2<br>2   | 43<br>4.1<br>87<br>13  | 109<br>180<br>6.07<br>9.08<br>2   | )5<br>.2<br>?6<br>34   | 120<br>200<br>6.0<br>9.5<br>2  | 04<br>0.5<br>003<br>i13<br>2   | 12<br>27<br>6.0<br>9.0<br>Single  | 831<br>20.1<br>047<br>503<br>2   | 14<br>23<br>6.0<br>9.5<br>Inverter<br>R134a<br>2:<br>380V-3Ph-                                  | 38<br>9.5<br>004<br>555<br>2<br>00%, Dua   | 15<br>25<br>5.9<br>9.5<br>2                                     | 09<br>52<br>085<br>609<br>2<br>2<br>ssor 8%-                      | 100%   | 557<br>57.7<br>.043<br>.536<br>2  | 16<br>27<br>5.1<br>9.4                      | 76.6<br>988<br>651<br>2  |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current   |   | kW kW W/W W/W Qty Type Starting method                                       | 10<br>17:<br>5.9<br>9.2<br>2  | 43<br>4.1<br>87<br>13  | 109<br>180<br>6.07<br>9.08<br>2   | 05<br>.2<br>.2<br>.76<br>.34                                     | 120<br>200<br>6.0<br>9.5<br>2  | 04<br>0.5<br>003<br>i13<br>2   | 13<br>222<br>6.0<br>9.6<br>Single   | 831<br>20.1<br>047<br>503<br>2<br>compres  | 14<br>23<br>6.0<br>9.5<br>Inverter<br>8134a<br>2:<br>380V-3Ph-                                  | 38<br>9.5<br>004<br>555<br>2<br>00%, Dua<br>85<br>50Hz<br>2#   | 15<br>25<br>5.9<br>9.5<br>2<br>al compre                        | 09<br>52<br>085<br>509<br>2<br>2<br>sssor 8%-                     | 100%   | 557<br>57.7<br>.043<br>.536<br>2  | 16<br>27<br>5.:<br>9.4                      | 76.6<br>988<br>651<br>2  |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current                                 |   | kW kW w/w w/w Qty Type Starting method                                       | 10<br>17:<br>5.9<br>9.2<br>2<br>25:<br>1#<br>171.2  | 43<br>4.1<br>87<br>13<br>60<br>2#<br>113.3   | 109<br>180<br>6.07<br>9.08<br>2<br>2<br>260<br>1#   | 05<br>.2.2<br>.76<br>.84<br>                                     | 120<br>200<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3  | 04<br>0.5<br>003<br>i13<br>2<br>2<br>55<br>2#<br>163.8   | 13<br>22<br>6.0<br>9.0<br>Single  | 831<br>20.1<br>047<br>503<br>2<br>2 compres<br>80<br>2#<br>179.8   | 14<br>23<br>6.6.<br>9.5<br>Inverter<br>sser 15%-1<br>R134a<br>2:<br>380V-3Ph-<br>1#             | 38<br>9.5<br>004<br>555<br>2<br>000%, Dua<br>35<br>50Hz<br>2#<br>220.0   | 15 25 5.9 9.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2             | 099<br>52<br>885<br>609<br>2<br>sssor 8%-<br>90<br>2#<br>226.1    | 100%<br>11#<br>210.5                           | 557<br>57.7<br>.043<br>.536<br>2  | 16<br>277<br>5.1<br>9.4<br>3<br>1#<br>226.0 | 76.6<br>988<br>651<br>2<br>10<br>2#<br>226.0<br>272.6  |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current                                 |   | kW kW w/w w/w Qty Type Starting method                                       | 10<br>17:<br>5.9<br>9.2<br>2<br>25<br>1#<br>171.2<br>228.3  | 43<br>4.1<br>87<br>13<br>50<br>2#<br>113.3<br><113.3<br><113.3   | 109<br>180<br>6.07<br>9.08<br>2<br>260<br>1#<br>147.2<br>228.3  | 25<br>26<br>34<br>34<br>0<br>0<br>2#<br>147.2<br>228.3<br><147.2 | 120<br>200<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3  | 04<br>0.5<br>003<br>i13<br>2<br>2<br>555<br>2#<br>163.8<br>2.28.3<br><163.8  | 13 22 6.6 5 6.6 9.6 Single 2 1# 179.8 228.3 <179.8  | 831<br>20.1<br>047<br>503<br>2<br>2 compres<br>80<br>2#<br>179.8<br>228.3  | 14 23 6.0 9.5 Inverter sser 15%-1 R134a 2380V-3Ph-1# 171.2 228.3 <171.2                         | 38<br>9.5<br>004<br>555<br>2<br>00%, Dua<br>85<br>50Hz<br>2#<br>220.0  | 15 25 5.9 9.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2             | 285<br>285<br>290<br>22<br>24<br>226.1<br>272.6<br>226.1          | 100%<br>100%<br>1#<br>210.5<br>272.6<br><210.5 | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6   | 3<br>1#<br>226.0<br>272.6<br><226.0         | 76.6<br>988<br>651<br>2<br>10<br>2#<br>226.0<br>272.6  |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current               | Charge amount   | kW kW w/w w/w Qty Type Starting method                                       | 10<br>17:<br>5.9<br>9.2<br>2<br>25<br>1#<br>171.2<br>228.3<br><171.2                                      | 43<br>44.1<br>87<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3   | 109<br>180<br>6.07<br>9.08<br>2<br>260<br>1#<br>147.2<br>228.3<br><147.2  | 25   | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8   | 004<br>00.5<br>00.5<br>1113<br>2<br>2<br>2#<br>163.8<br>2283<br>2813.66.0  | 13<br>22<br>6.0<br>9.0<br>Single<br>2<br>1#<br>179.8<br>228.3<br><179.8                         | 20.1<br>20.1<br>20.1<br>20.1<br>20.1<br>20.1<br>20.1<br>20.3<br>2<br>2<br>2<br>2<br>2<br>2<br>3<br>3<br>4<br>7<br>9<br>80<br>2<br>2<br>4<br>7<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 14 23 6.0 9.5 Inverter sser 15%-1 R134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22                    | 388<br>9.5<br>004<br>555<br>2<br>00%, Dua<br>85<br>50Hz<br>2#<br>220.0<br>272.6<br><220.0  | 15 29 5.9 9.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2             | 099 552 5885 609 2 2 226.1 272.6 3.3.1                            | 100%<br>100%<br>1#<br>210.5<br>272.6<br><210.5 | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5   | 3<br>1#<br>226.0<br>272.6<br><226.0         | 2# 226.0<br>22.6<br>22.6<br>22.6<br>22.6<br>22.6<br>22.6<br>22.6   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current               | Charge amount  Water flow   | kW kW w/w w/w Qty Type Starting method                                       | 10<br>17.<br>5.9<br>9.2<br>2<br>25<br>1#<br>171.2<br>228.3<br><171.2<br>16                                | 43<br>44.1<br>87<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3   | 109<br>180<br>6.07<br>9.08<br>2<br>260<br>1#<br>147.2<br>228.3<br><147.2  | 22 22 3 3 4 4 7 2 22 8 3 3 4 1 4 7 2 2 7 7                       | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8   | 004<br>00.5<br>00.5<br>1113<br>2 2<br>2 # 163.8<br>2 28.3<br>2 < 163.8<br>6.0  | Single  22  5.0  1.1  22  6.0  9.0  Single  2  1.1  179.8  228.3  <179.8  20  70                | 8331<br>20.1<br>047<br>5603<br>2<br>2 compres<br>80<br>2#<br>179.8<br>228.3<br><179.8  | 14 23 6.0 9.5 Inverter sser 15%-1 R134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22                    | 338 99.5 10004 1004 1000 1000 1000 1000 1000 10  | 15 29 5.9 9.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2             | 272.6<br>226.1<br>272.6<br>226.1<br>272.6<br>226.1<br>272.6       | 100%<br>100%<br>1#<br>210.5<br>272.6<br><210.5 | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6   | 3<br>1#<br>226.0<br>272.6<br><226.0         | 24 226.0<br>272.2<br>225.5   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current               | Charge amount  Water flow Pressure drop   | kW kW w/w w/w Qty Type Starting method                                       | 10<br>17.<br>5.9<br>9.2<br>2<br>25<br>1#<br>171.2<br>228.3<br><171.2<br>16                                | 43<br>4.1<br>87<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3<br>1.1<br>4.4<br>200   | 109<br>180<br>6.07<br>9.08<br>2<br>260<br>1#<br>147.2<br>228.3<br><147.2<br>169<br>63.                                  | 25 2.2 2.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                       | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8   | 004<br>00.5<br>00.5<br>1113<br>2 2<br>2 # 163.8<br>2 228.3<br><163.8<br>6.0<br>0.0<br>8.8  | Single  22  5.0  Single  2  1#  179.8  228.3  <179.8  20  70  DN                                | 3331<br>3310<br>3310<br>3310<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410<br>3410 | 14 23 6.0 9.5 Inverter sser 15%-1 R134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22                    | 338<br>9.9.5<br>9.5<br>000%, Dual<br>000%, Dual<br>22<br>220.0<br>272.6<br>220.0<br>222.2  | 15 29 5.9 9.5 2 2 3 1 # 185.7 245.8 <185.7 23. 76               | 272.6.1<br>272.6.1<br>272.6.1<br>272.6.3<br>3.1<br>5.4            | 100%  1# 210.5 272.6 <210.5 D                  | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5   | 3 1# 226.0 272.6 < 226.0 DN                 | 24 226.0<br>272.555.9  |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current  Evaporator   | Charge amount  Water flow Pressure drop Water pipe connection Water flow  | kW kW w/w w/w Qty Type Starting method A A A A A A A A A A A A A A A A A A A | 10<br>17-<br>5.9<br>9.2<br>2<br>1#<br>171.2<br>228.3<br><171.2<br>16<br>68                                | 43<br>4.1<br>87<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3<br>1.1<br>4.4<br>200<br>1.4  | 109<br>180<br>6.07<br>9.08<br>2<br>260<br>1#<br>147.2<br>228.3<br><147.2<br>169<br>63.                                  | 25 2.2 2.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                       | 12(<br>200<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8<br>79<br>DN2                             | 004<br>00.5<br>00.5<br>1113<br>2 2<br>163.8<br>228.3<br><163.8<br>6.0<br>0.8.8   | Single  22  5.0  Single  24  1#  179.8  228.3  <179.8  20  70  DN  25                           | 3331<br>3310<br>3310<br>3310<br>340<br>340<br>340<br>340<br>340<br>340<br>340<br>34  | 14 23 6.0 9.5 Inverter sser 15%-1 R134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22. 70 DN 27          | 338 39.5 99.5 000%, Dual 35555 2 2 2# 220.0 272.6 <222.0 2.2 2.3.7   | 15 29 5.9 9.5 2 2 3 3 4 5 6 5 7 6 5 7 6 5 7 6 5 7 6 6 5 7 6 7 6 | 28 226.1 272.6 < 226.1 3.1 5.4 2200 11.5                          | 100%  1# 210.5 272.6 <210.5 2 DD 3             | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>N200   | 3 1# 226.0 272.6 < 226.0 DN 32              | 2# 226.0 < 226.55.9 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0   |
| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current  Evaporator   | Charge amount  Water flow Pressure drop Water pipe connection Water flow Pressure drop                                    | kW kW w/w w/w Qty Type Starting method / kg A A A kPa mm m³/h kPa            | 10<br>17-<br>5.9<br>9.2<br>2<br>1#<br>171.2<br>228.3<br><171.2<br>16<br>68<br>DN<br>20                    | 43<br>4.1<br>87<br>13<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3<br>1.1<br>4.4<br>200<br>1.4<br>.3                              | 109 180 6.07 9.08 2 260 1# 147.2 228.3 <147.2 169 63. DN2: 211 41.  | 25 2.2 2.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                       | 12(20) 6.0 9.5 2 26 1# 163.8 228.3 <163.8 79 DNX 233   | 004<br>00.5<br>00.5<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>1 | Single  22  6.0  9.6  Single  1#  179.8  228.3  <179.8  20  70  DN  255                         | 3331<br>3310<br>347<br>3503<br>22<br>24<br>1798<br>2283<br>2283<br>2798<br>3056<br>63<br>31200<br>3688   | 14 23 6.0 9.5 Inverter sser 15%-1-1 8134a 2: 3380V-3Ph-1# 171.2 228.3 <171.2 DN 27 6: 6         | 338 9.5 9.5 9.5 000%, Dua 00%, Dua 28 220.0 272.6 <220.0 2.2 2.3 3.7 2.00 7.7.8  | 15 29 9.5 2 29 1# 185.7 245.8 <185.7 29 61                      | 28 226.1<br>272.6<br>226.1<br>272.6<br>226.1<br>275.6<br>200      | 100%  1# 210.5 272.6 <210.5 2 Di               | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>N200<br>00.5<br>52.6   | 3 1# 226.0 272.6 < 226.0 DN 32              | 2# 226.0 < 226.0 < 226.0 < 226.0 < 227.7.7 < 226.0 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 227.7.7 < 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| Power input  COP  IPLV  Compressor  Capacity adjust range  Refrigerant  Power supply  Compressor number  Rated current  Max. operating current  Starting current  Evaporator   | Charge amount  Water flow Pressure drop Water pipe connection Water flow Pressure drop Water pipe connection              | kW kW w/w Qty Type Starting method / kg A A A A A A Mmm m³/h kPa mm          | 10<br>17-<br>5.9<br>9.2<br>2<br>1#<br>171.2<br>228.3<br><171.2<br>16<br>68<br>DN<br>20<br>38              | 43<br>4.1<br>87<br>13<br>13<br>50<br>2#<br>113.3<br>154.3<br><113.3<br>1.1<br>4.4<br>200<br>1.4<br>.3<br>200                       | 109 180 6.07 9.08 2 260 1# 147.2 228.3 <147.2 169 63. DN2: DN2:   | 25 2.2 2.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                       | 12(20) 6.0 9.5 2 1# 163.8 228.3 <163.8 79 DN2 57 DN2   | 004<br>00.5<br>00.5<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>1 | Single  Single  2  1#  179.8  228.3  <179.8  200  70  DN  255  EDN                              | 3331<br>3310<br>347<br>3503<br>22<br>24<br>1798<br>2283<br>2283<br>2798<br>3056<br>63<br>31200<br>3688<br>41200  | 14 23 6.0 9.5 Inverter sser 15%-1-1 8134a 2: 3380V-3Ph-1# 171.2 228.3 <171.2 DN 27 6: DN        | 338 9.5 9.5 9.5 000%, Dua 00%, Dua 28 28 220.0 272.6 <220.0 2.2 2.3 3.7 2200 7.7.8 2.0 000%, Dua 28 28 29 200 272.6 200 272.6 200 272.6 200 272.6 200 272.6  | 15 29 9.5 2 29 1# 185.7 245.8 <185.7 29 61 DN:                  | 28 226.1 272.6 < 226.1 3.1 5.4 2200 1.5 5.5 2200                  | 100%  1# 210.5 272.6 <210.5  Di 0 Di           | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>N200<br>00.5<br>52.6<br>N200   | 33 1# 226.0 272.6 < 226.0 DN 322 6 DN       | 2# 226.0 < 226 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 226.0 < 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| Power input COP IPLV  Compressor  Capacity adjust range Refrigerant Power supply Compressor number Rated current Max. operating current Starting current Evaporator  Condenser | Charge amount  Water flow Pressure drop Water pipe connection Water flow Pressure drop Water pipe connection Length       | kW kW w/w Qty Type Starting method / kg A A A A A Mmm m³/h kPa mm mm         | 10<br>17-<br>5.9<br>9.2<br>2<br>1#<br>171.2<br>228.3<br><171.2<br>16<br>68<br>DN<br>20<br>388<br>DN<br>44 | 43<br>4.1<br>87<br>13<br>13<br>60<br>2#<br>113.3<br>154.3<br><113.3<br>1.1<br>4.4<br>200<br>1.4<br>.3<br>200<br>30                 | 109 180 6.07 9.08 2 260 1# 147.2 228.3 <147.2 169 63. DN2: 111 41. DN2: 443   | 21 147.2 228.3 <147.2 27 7 000 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8<br>186<br>79<br>DN:<br>23:<br>57                | 004<br>0.0.5<br>0.0.5<br>1113<br>2 2<br>163.8<br>228.3<br>228.3<br>216.3.8<br>2200<br>22.5<br>27.0<br>000  | Single  Single  22  Single  24  1#  179.8  228.3  <179.8  20  70  DN  25  56  DN  45            | 331<br>331<br>331<br>347<br>350<br>360<br>37<br>380<br>380<br>380<br>380<br>380<br>380<br>380<br>380   | 14 23 6.6 9.5 Inverter sser 15%-1-1 8134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22 78 5.6 5.0 DN 45 | 338 9.5 9.5 000%, Dua 00%, Dua 2726 <220.0 272.6 <220.0 27.7 8 2.0 000%, Dua | 15 29 9.5 29 18 245.8 <185.7 29 61 DN. 45                       | 28 226.1 272.6 < 226.1 1.5 5 2200 000                             | 1100%  1# 210.5 272.6 <210.5 2 Di A            | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>10200<br>00.5<br>52.6<br>10200<br>10200<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>103000<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000 | 33 1# 226.0 272.6 <226.0 DN 32 6 DN 45      | 2# 226.0   |
| Power input COP IPLV Compressor Capacity adjust range Refrigerant Power supply Compressor number Rated current Max. operating current Starting current Evaporator Condenser    | Charge amount  Water flow Pressure drop Water pipe connection Water flow Pressure drop Water pipe connection Length Width | kW kW w/w Qty Type Starting method / kg A A A A A A A A A A A A A A A A A A  | 100 177 5.9 9.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | 43<br>4.1<br>87<br>13<br>13<br>13<br>13<br>13<br>13<br>154.3<br>154.3<br>1.1<br>1.4<br>200<br>1.4<br>3<br>200<br>30<br>10          | 169<br>180<br>6.07<br>9.08<br>2<br>2<br>14<br>147.2<br>228.3<br><147.2<br>169<br>63.<br>DN2<br>211<br>41.<br>DN2<br>443 | 21 147.2 228.3 <147.2 2.7 7 000 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8<br>186<br>79<br>DN;<br>23;<br>57,<br>DN;<br>45( | 004<br>0.05<br>0.003<br>1113<br>2<br>2#<br>163.8<br>228.3<br><163.8<br>6.0<br>0.8<br>22.5<br>7.0<br>000<br>000<br>000  | 13 22 6.0 9.6 Single 2 1# 179.8 228.3 <179.8 20 70 DN 25 Si DN 45                               | 331  | 14 23 6.0 9.5 Inverter sser 15%-1 8134a 2: 380V-3Ph-1# 171.2 228.3 <171.2 22 76 5.0 DN 45 17    | 388 39.5 3004 3004 3006, Dua 3006, D | 15 25 5.9 9.5 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3             | 099 552 5885 5909 2 2 226.1 272.6 <226.1 1.1.5 1.5.5 200 000      | 1100%  1# 210.5 272.6 <210.5 Di 33 6 Di 4      | 557<br>57.7<br>.043<br>.536<br>2<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>N200<br>00.5<br>52.6<br>N200<br>500<br>700  | 33 1# 226.0 272.6 <226.0 DN 322 6 DN 45     | 2# 226.0<br>272.6<br>222.0<br>272.6<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272 |
| Power input COP IPLV  Compressor  Capacity adjust range  | Charge amount  Water flow Pressure drop Water pipe connection Water flow Pressure drop Water pipe connection Length       | kW kW w/w Qty Type Starting method / kg A A A A A Mmm m³/h kPa mm mm         | 10<br>17-<br>5.9<br>9.2<br>2<br>1#<br>171.2<br>228.3<br><171.2<br>16<br>68<br>DN<br>20<br>388<br>DN<br>44 | 43<br>4.1<br>87<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>154.3<br>11.1<br>14<br>200<br>1.4<br>3<br>200<br>30<br>10<br>63 | 109 180 6.07 9.08 2 260 1# 147.2 228.3 <147.2 169 63. DN2: 111 41. DN2: 443   | 21 147.2 228.3 <147.2 2.7 7 000 0.0 0 0.3 3                      | 120<br>6.0<br>9.5<br>2<br>26<br>1#<br>163.8<br>228.3<br><163.8<br>186<br>79<br>DN:<br>23:<br>57                | 004 0.05 0.003 1113 2 2 # 163.8 228.3 <163.8 6.0 0.8 22.5 7.0 000 000 98   | Single  Single  22  Single  23  Single  24  179.8  228.3  179.8  20  70  DN  25  50  DN  45  17 | 331<br>331<br>331<br>347<br>350<br>360<br>37<br>380<br>380<br>380<br>380<br>380<br>380<br>380<br>380   | 14 23 6.6 9.5 Inverter sser 15%-1-1 8134a 2: 3380V-3Ph-1 1# 171.2 228.3 <171.2 22 78            | 338 9.5 9.5 000%, Dua 00%, Dua 2726 <220.0 272.6 <220.0 27.7 8 2.0 000%, Dua | 15 29 9.5 29 18 245.8 <185.7 29 61 DN. 45                       | 099 552 5885 5909 2 2 226.1 272.6 <226.1 3.3.1 5.4 200 000 000 98 | 1100%  1# 210.5 272.6 <210.5 Di 33 6 Di 4 11 2 | 557<br>57.7<br>.043<br>.536<br>2<br>300<br>2#<br>210.5<br>272.6<br><210.5<br>40.6<br>76.5<br>10200<br>00.5<br>52.6<br>10200<br>10200<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>103000<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>10300<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>1030000<br>103000<br>103000<br>103000<br>103000<br>103000<br>1030000<br>103000<br>103000<br>103000 | 33 1# 226.0 272.6 <226.0 DN 322 6 DN 45     | 2# 226.0<br>272.6<br>272.6<br>272.6<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272.7<br>272 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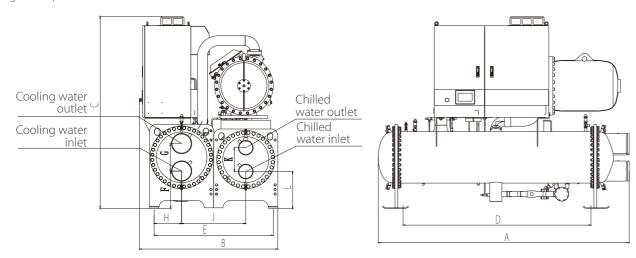
12

Inverter Water Cooled Screw Chiller

- 1. Performance and efficiency are based on 550/590-2018. Evaporator conditions: water inlet=54°F (12.22°C), water outlet=44°F (6.67°C), fouling factor=0.00010h-ft²-°F/Btu (0.0176m². °C/kW);Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h-ft²-°F/Btu (0.0440m². °C/kW).
- 2. The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required.
- 3. As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the software selection and the actual product

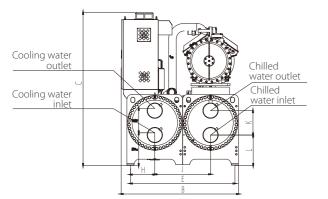
#### Dimensions

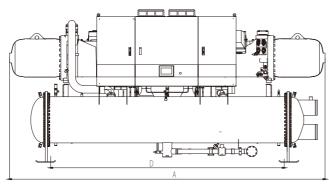
Single compressor



| А    | В  | С  | D  | E   | F  | G  | Н  | J  | К  | L  |
|------|--|--|--|---|--|--|--|--|--|--|
| 2713 | 1380   | 1996   | 2050   | 1100  | 381  | 260  | 250  | 600  | 260  | 381  |
| 2713 | 1380   | 1996   | 2050   | 1100  | 381  | 260  | 250  | 600  | 260  | 381  |
| 2713 | 1380   | 1996   | 2050   | 1100  | 381  | 260  | 250  | 600  | 260  | 381  |
| 2738 | 1500   | 2096   | 2050   | 1300  | 411  | 300  | 300  | 700  | 260  | 406  |
| 2970 | 1500   | 2096   | 2050   | 1300  | 411  | 300  | 300  | 700  | 300  | 411  |
| 2970 | 1500   | 2096   | 2050   | 1300  | 411  | 300  | 300  | 700  | 300  | 411  |
|      | 2713<br>2713<br>2713<br>2713<br>2738<br>2970 | 2713 1380<br>2713 1380<br>2713 1380<br>2713 1380<br>2738 1500<br>2970 1500 | 2713     1380     1996       2713     1380     1996       2713     1380     1996       2738     1500     2096       2970     1500     2096 | 2713     1380     1996     2050       2713     1380     1996     2050       2713     1380     1996     2050       2738     1500     2096     2050       2970     1500     2096     2050 | 2713     1380     1996     2050     1100       2713     1380     1996     2050     1100       2713     1380     1996     2050     1100       2738     1500     2096     2050     1300       2970     1500     2096     2050     1300 | 2713     1380     1996     2050     1100     381       2713     1380     1996     2050     1100     381       2713     1380     1996     2050     1100     381       2738     1500     2096     2050     1300     411       2970     1500     2096     2050     1300     411 | 2713     1380     1996     2050     1100     381     260       2713     1380     1996     2050     1100     381     260       2713     1380     1996     2050     1100     381     260       2738     1500     2096     2050     1300     411     300       2970     1500     2096     2050     1300     411     300 | 2713     1380     1996     2050     1100     381     260     250       2713     1380     1996     2050     1100     381     260     250       2713     1380     1996     2050     1100     381     260     250       2738     1500     2096     2050     1300     411     300     300       2970     1500     2096     2050     1300     411     300     300 | 2713     1380     1996     2050     1100     381     260     250     600       2713     1380     1996     2050     1100     381     260     250     600       2713     1380     1996     2050     1100     381     260     250     600       2738     1500     2096     2050     1300     411     300     300     700       2970     1500     2096     2050     1300     411     300     300     700 | 2713     1380     1996     2050     1100     381     260     250     600     260       2713     1380     1996     2050     1100     381     260     250     600     260       2713     1380     1996     2050     1100     381     260     250     600     260       2738     1500     2096     2050     1300     411     300     300     700     260       2970     1500     2096     2050     1300     411     300     300     700     300 |

#### Dual compressor





|          |      |      |      |      |      |     |     |     |     |     | Unit: mm |
|----------|------|------|------|------|------|-----|-----|-----|-----|-----|----------|
| Model    | А    | В    | С    | D    | Е    | F   | G   | Н   | J   | K   | L        |
| ZLWXV260 | 4430 | 1610 | 2163 | 2850 | 1400 | 411 | 350 | 325 | 750 | 350 | 411      |
| ZLWXV280 | 4430 | 1610 | 2163 | 2850 | 1400 | 411 | 350 | 325 | 750 | 350 | 411      |
| ZLWXV300 | 4430 | 1610 | 2163 | 2850 | 1400 | 411 | 350 | 325 | 750 | 350 | 411      |
| ZLWXV320 | 4430 | 1610 | 2163 | 2850 | 1400 | 411 | 350 | 325 | 750 | 350 | 411      |
| ZLWXV360 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |
| ZLWXV380 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |
| ZLWXV410 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |
| ZLWXV430 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |
| ZLWXV450 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |
| ZLWXV480 | 4500 | 1700 | 2198 | 3350 | 1500 | 436 | 350 | 350 | 800 | 350 | 436      |

#### Space Layout



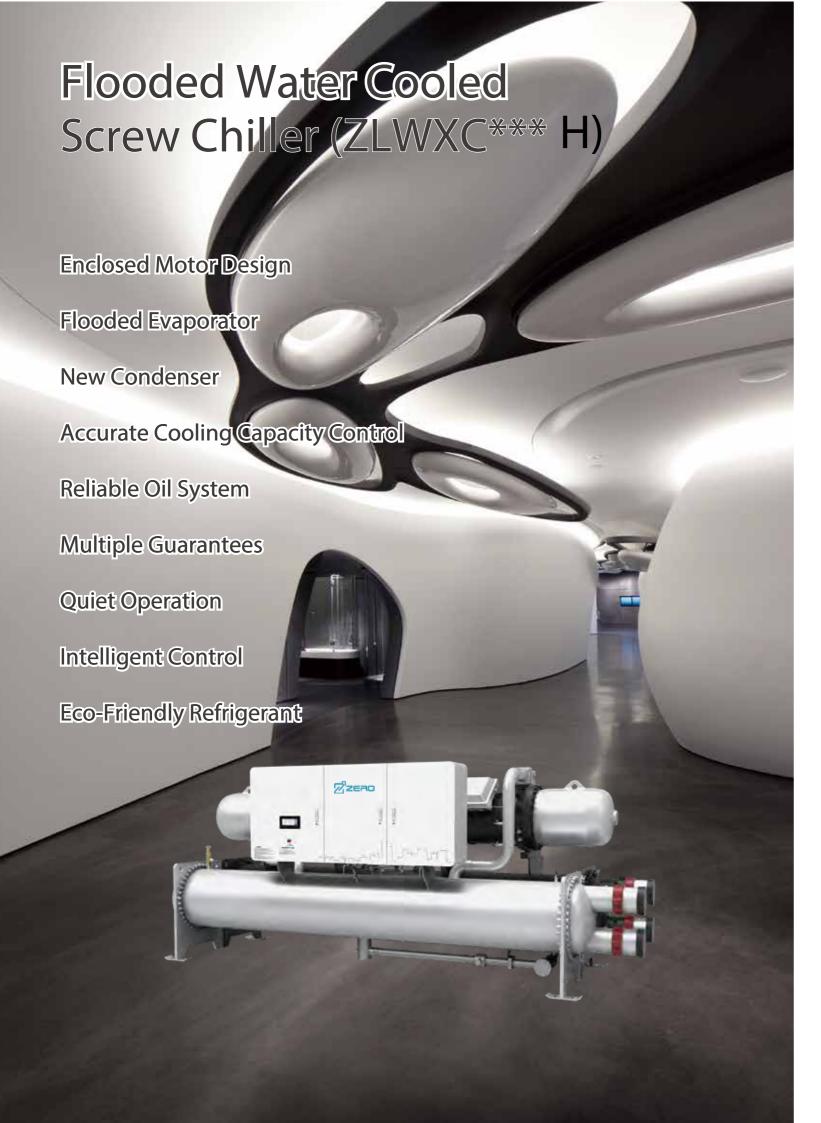
Unit: mm

14

Inverter Water Cooled Screw

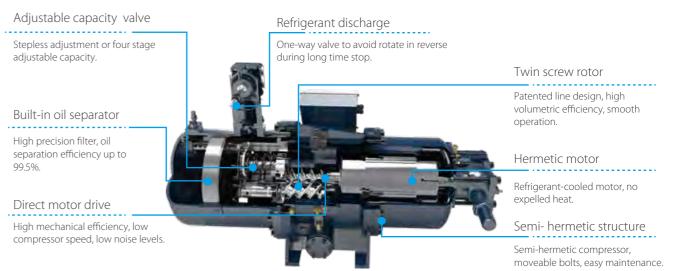
| Dimensions        | S   | Т   | Z    | Y    |
|-------------------|-----|-----|------|------|
| ZLWXV120~ZLWXV240 | 600 | 600 | 3200 | 1000 |
| ZLWXV260~ZLWXV480 | 600 | 600 | 4200 | 1000 |

Z: Tube removal space for either end.



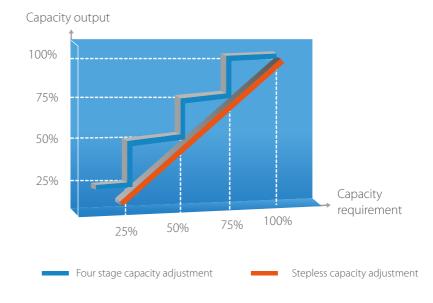
#### Advanced Twin-rotor Screw Compressor

- The product adopts a semi-hermetic twin-rotor screw compressor. Compared with open structure, it has the advantages of less refrigerant leakage, high transmission efficiency and no heat dissipation in the equipment room.
- The screw rotor adopts the profile design undergoing the optimized compression process to ensure the compressor has excellent volumetric efficiency and low leakage. At the same time, the twin-screw rotor adopts five teeth to six teeth asymmetric design, machining accuracy up to micron level and ensuring stable operation.
- Large capacity motor design, high motor efficiency. Suitable gas passage and clearance design is adopted inside the motor, and the refrigerant is fixed around the motor to ensure full cooling of the motor.
- \* The compressor adopts the bearing of international famous brand SKF, which has a long service life, ensuring that the continuous operation time of the chiller is at least 50000h.

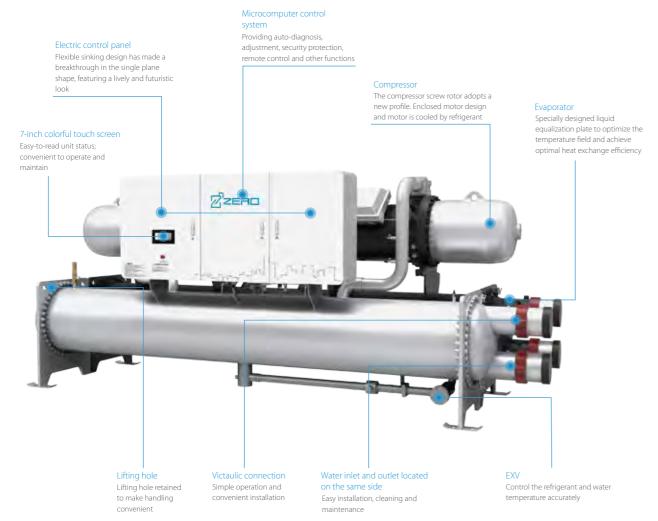


#### Stepless Capacity Adjustment

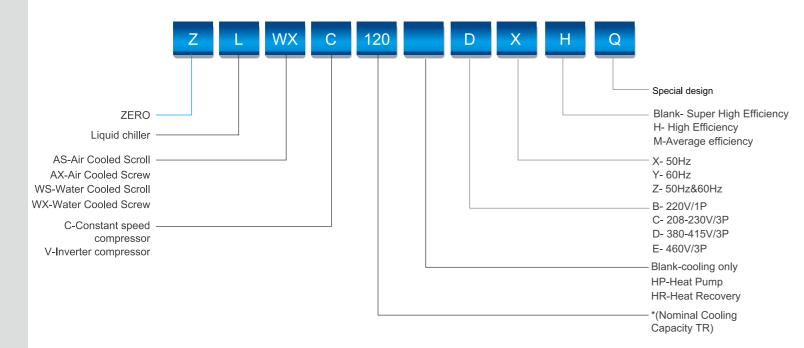
The capacity adjustment system consists of capacity adjust slide valve, solenoid valve and oil pressure piston.



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#### Nomenclature



#### Specifications

|             |                       | 7111016            | 90    | 100   | 110   | 130   | 150   | 170   | 200   | 210      | 230       | 220       | 240       | 260       | 300       | 350       | 390       | 430       | 470       |
|-------------|-----------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Model       |                       | ZLWXC              | DXH      | DXH       | DXH       | DXH       | DXH       | DXH       | DXH       | DXH       | DXH       | DXHQ      |
| Cooling ca  | apacity               | RT                 | 86.87 | 94.07 | 106.9 | 130.3 | 148.9 | 171.1 | 194.4 | 213.9    | 233.3     | 224.5     | 243.1     | 255.8     | 297.6     | 343.1     | 388.5     | 427.5     | 466.5     |
|             | pacity                | kW                 | 305.4 | 330.7 | 376.0 | 458.2 | 523.6 | 601.6 | 683.6 | 752.0    | 820.4     | 789.5     | 854.8     | 899.4     | 1046      | 1206      | 1366      | 1503      | 1640      |
| Power inp   | ut                    | kW                 | 52.32 | 57.20 | 65.14 | 79.41 | 87.65 | 100.6 | 114.2 | 125.2    | 137.0     | 132.1     | 142.9     | 150.5     | 174.6     | 201.3     | 228.5     | 248.1     | 271.3     |
| COP         |                       | W/W                | 5.838 | 5.783 | 5.772 | 5.771 | 5.974 | 5.982 | 5.985 | 6.006    | 5.987     | 5.974     | 5.980     | 5.987     | 5.991     | 5.995     | 5.978     | 6.060     | 6.045     |
| IPLV        |                       | W/W                | 7.425 | 7.695 | 7.689 | 7.256 | 7.501 | 7.720 | 7.676 | 8.100    | 8.186     | 7.895     | 7.822     | 7.872     | 7.762     | 7.908     | 7.994     | 8.423     | 8.504     |
|             |                       | Qty                | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1        | 1         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
| Compress    | or                    | Туре               |       |       |       |       |       |       | Sen   | ni-herme | tic screw | compres   | sor       |           |           |           |           |           |           |
|             |                       | Starting<br>method |       |       |       |       |       |       |       | \        | Nye-Delta | 3         |           |           |           |           |           |           |           |
| Capacity a  | djust range           |                    |       |       |       |       |       |       |       |          | Stepless  |           |           |           |           |           |           |           |           |
| D. C:       | Туре                  | /                  |       |       |       |       |       |       |       |          | R134a     |           |           |           |           |           |           |           |           |
| Refrigerant | Charge amount         | kg                 | 78    | 82    | 90    | 100   | 120   | 130   | 140   | 155      | 170       | 210       | 230       | 230       | 245       | 282       | 300       | 330       | 350       |
| Power sup   | pply                  |                    |       |       |       |       |       |       |       | 380      | )V-3Ph-50 | )Hz       |           |           |           |           |           |           |           |
|             |                       |                    |       |       |       |       |       |       |       |          |           | 1#: 95.5  | 1#: 95.3  | 1#: 108.5 | 1#: 150.8 | 1#: 150.8 | 1#: 197.3 | 1#: 214.1 | 1#: 234.  |
| Rated curr  | ent                   | Α                  | 90.3  | 98.8  | 112.5 | 137.1 | 151.3 | 173.6 | 197.2 | 216.2    | 236.6     | 2#: 132.7 | 2#: 151.4 | 2#: 151.2 | 2#: 150.8 | 2#: 196.7 | 2#: 197.3 | 2#: 214.1 | 2#: 234.  |
|             |                       |                    |       |       |       |       |       |       |       |          |           | 1#: 154.6 | 1#: 154.6 | 1#: 176.9 | 1#: 235.0 | 1#: 235.0 | 1#: 301.0 | 1#: 335.0 | 1#: 369.0 |
| Max. opera  | ating current         | А                  | 136.6 | 154.6 | 176.9 | 208.0 | 235.0 | 260.0 | 301.0 | 335.0    | 369.0     | 2#: 208.0 | 2#: 235.0 | 2#: 235.0 | 2#: 235.0 | 2#: 301.0 | 2#: 301.0 | 2#: 335.0 | 2#: 369.0 |
|             |                       |                    |       |       |       |       |       |       |       |          |           | 1#: 315   | 1#: 315   | 1#: 378   | 1#: 479   | 1#: 479   | 1#: 650   | 1#: 683   | 1#: 845   |
| Starting cu | urrent                | А                  | 258   | 315   | 378   | 415   | 479   | 506   | 650   | 683      | 845       | 2#: 415   | 2#: 479   | 2#: 479   | 2#: 479   | 2#: 650   | 2#: 650   | 2#: 683   | 2#: 845   |
|             | Water flow            | m³/h               | 47.19 | 51.1  | 58.09 | 70.80 | 80.90 | 92.95 | 105.6 | 116.2    | 126.8     | 122.0     | 132.1     | 139.0     | 161.6     | 186.4     | 211.0     | 232.2     | 253.4     |
| Evaporator  | Pressure drop         | kPa                | 33.2  | 30.3  | 38.1  | 45.8  | 39.4  | 50.4  | 56.1  | 48.5     | 56.6      | 56.6      | 57.7      | 63.2      | 66.4      | 78.5      | 78.6      | 74.6      | 78.3      |
|             | Water pipe connection | mm                 |       |       |       |       | DN1   | 50    |       |          |           |           |           |           | DN20      | 0         |           |           |           |
|             | Water flow            | m³/h               | 59.22 | 64.21 | 73.01 | 88.99 | 101.2 | 116.3 | 132.1 | 145.2    | 158.5     | 152.6     | 165.2     | 178.3     | 202.1     | 233.1     | 264.0     | 290.0     | 316.5     |
| Condenser   | Pressure drop         | kPa                | 43.8  | 44.4  | 44.2  | 56.9  | 57.3  | 57.3  | 55.9  | 55.5     | 56.5      | 29.3      | 31.1      | 34.1      | 34.0      | 50.4      | 54.1      | 53.6      | 58.4      |
|             | Water pipe connection | mm                 |       |       | D     | N150  |       |       | DN200 |          |           |           |           |           |           |           |           |           |           |
|             | Length                | mm                 | 2710  | 2710  | 2710  | 2710  | 2710  | 2710  | 2750  | 2750     | 2750      | 4250      | 4250      | 4250      | 4410      | 4530      | 4530      | 4750      | 4750      |
| Unit        | Width                 | mm                 | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1400  | 1400     | 1400      | 1500      | 1500      | 1500      | 1500      | 1600      | 1600      | 1600      | 1600      |
| dimensions  | Height                | mm                 | 1740  | 1790  | 1790  | 1813  | 1813  | 1942  | 1940  | 2090     | 2090      | 2180      | 2230      | 2230      | 2230      | 2290      | 2290      | 2340      | 2340      |
| Shipping v  | weight                | kg                 | 2148  | 2182  | 2210  | 2675  | 2750  | 2540  | 3130  | 3320     | 3375      | 4600      | 4700      | 4710      | 5225      | 5787      | 5975      | 6360      | 6480      |
| Running w   | veight                | kg                 | 2280  | 2321  | 2354  | 2825  | 2917  | 2714  | 3345  | 3553     | 3614      | 4955      | 5069      | 5079      | 5632      | 6276      | 6502      | 6935      | 7078      |

 $Evaporator\ conditions:\ water\ inlet=54°F\ (12.22°C),\ water\ outlet=44°F\ (6.67°C),\ fouling\ factor=0.00010h-ft2-°F/Btu\ (0.0176m2.\ ^{\circ}C/kW);$ 

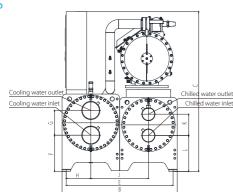
Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h-ft2-°F/Btu (0.0440m2. °C/kW).

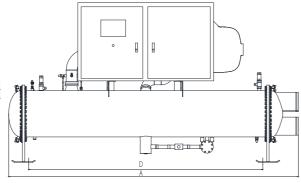
<sup>1.</sup> Performance and efficiency are based on 550/590-2018.

<sup>2.</sup> The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required. 3. As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the software selection and the actual

#### Dimensions

Single compressor

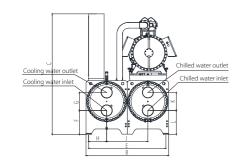


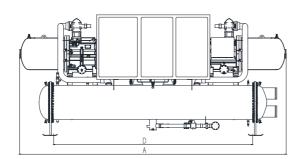


Unit: mm

| Model       | A    | В    | С    | D    | E    | F   | G   | Н   | J   | K   | L   |
|-------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| ZLWXC90DXH  | 2710 | 1200 | 1740 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC100DXH | 2710 | 1200 | 1790 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC110DXH | 2710 | 1200 | 1790 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC130DXH | 2710 | 1200 | 1813 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC150DXH | 2710 | 1200 | 1813 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC170DXH | 2710 | 1200 | 1942 | 2050 | 1100 | 411 | 260 | 250 | 600 | 260 | 411 |
| ZLWXC180DXH | 2750 | 1400 | 1940 | 2050 | 1300 | 441 | 300 | 300 | 700 | 260 | 436 |
| ZLWXC190DXH | 2750 | 1400 | 2090 | 2050 | 1300 | 441 | 300 | 300 | 700 | 260 | 436 |
| ZLWXC230DXH | 2750 | 1400 | 2090 | 2050 | 1300 | 441 | 300 | 300 | 700 | 260 | 436 |
|             |      |      |      |      |      |     |     |     |     |     |     |

### Dual compressor





Unit: mm

| А    | В  | C   | D  | Е   | F  | G  | Н  | J  | К   | L   |
|------|--|---|--|---|--|--|--|--|---|---|
| 4250 | 1500   | 2180  | 2850   | 1400  | 443  | 350  | 325  | 750  | 350   | 443   |
| 4250 | 1500   | 2230  | 2850   | 1400  | 443  | 350  | 325  | 750  | 350   | 443   |
| 4250 | 1500   | 2230  | 2850   | 1400  | 443  | 350  | 325  | 750  | 350   | 443   |
| 4410 | 1500   | 2230  | 2850   | 1400  | 443  | 350  | 325  | 750  | 350   | 443   |
| 4530 | 1600   | 2290  | 3350   | 1500  | 468  | 350  | 350  | 800  | 350   | 468   |
| 4530 | 1600   | 2290  | 3350   | 1500  | 468  | 350  | 350  | 800  | 350   | 468   |
| 4750 | 1600   | 2340  | 3350   | 1500  | 468  | 350  | 350  | 800  | 350   | 468   |
| 4750 | 1600   | 2340  | 3350   | 1500  | 468  | 350  | 350  | 800  | 350   | 468   |
|      | 4250<br>4250<br>4250<br>4410<br>4530<br>4530<br>4750 | 4250     1500       4250     1500       4250     1500       4410     1500       4530     1600       4750     1600 | 4250     1500     2180       4250     1500     2230       4250     1500     2230       4410     1500     2230       4530     1600     2290       4530     1600     2290       4750     1600     2340 | 4250     1500     2180     2850       4250     1500     2230     2850       4250     1500     2230     2850       4410     1500     2230     2850       4530     1600     2290     3350       4530     1600     2290     3350       4750     1600     2340     3350 | 4250     1500     2180     2850     1400       4250     1500     2230     2850     1400       4250     1500     2230     2850     1400       4410     1500     2230     2850     1400       4530     1600     2290     3350     1500       4530     1600     2290     3350     1500       4750     1600     2340     3350     1500 | 4250     1500     2180     2850     1400     443       4250     1500     2230     2850     1400     443       4250     1500     2230     2850     1400     443       4410     1500     2230     2850     1400     443       4530     1600     2290     3350     1500     468       4530     1600     2290     3350     1500     468       4750     1600     2340     3350     1500     468 | 4250     1500     2180     2850     1400     443     350       4250     1500     2230     2850     1400     443     350       4250     1500     2230     2850     1400     443     350       4410     1500     2230     2850     1400     443     350       4530     1600     2290     3350     1500     468     350       4530     1600     2290     3350     1500     468     350       4750     1600     2340     3350     1500     468     350 | 4250         1500         2180         2850         1400         443         350         325           4250         1500         2230         2850         1400         443         350         325           4250         1500         2230         2850         1400         443         350         325           4410         1500         2230         2850         1400         443         350         325           4530         1600         2290         3350         1500         468         350         350           4530         1600         2290         3350         1500         468         350         350           4750         1600         2340         3350         1500         468         350         350 | 4250       1500       2180       2850       1400       443       350       325       750         4250       1500       2230       2850       1400       443       350       325       750         4250       1500       2230       2850       1400       443       350       325       750         4410       1500       2230       2850       1400       443       350       325       750         4530       1600       2290       3350       1500       468       350       350       800         4750       1600       2240       3350       1500       468       350       350       800 | 4250         1500         2180         2850         1400         443         350         325         750         350           4250         1500         2230         2850         1400         443         350         325         750         350           4250         1500         2230         2850         1400         443         350         325         750         350           4410         1500         2230         2850         1400         443         350         325         750         350           4530         1600         2290         3350         1500         468         350         350         800         350           4750         1600         2340         3350         1500         468         350         350         800         350 |

## Space Layout



Unit: mm

Inverter Water Cooled Screw Chiller

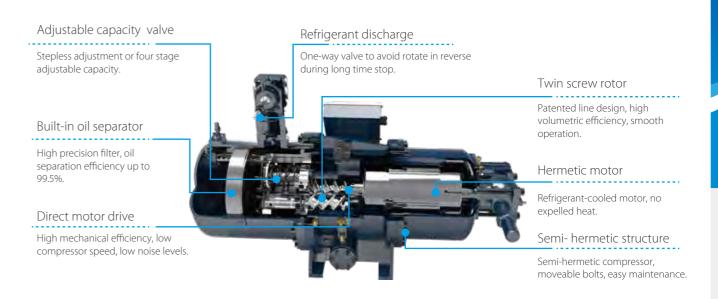
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|                         |     |     |      | Offic. ITHIT |
|-------------------------|-----|-----|------|--------------|
| Dimensions<br>Model     | S   | Т   | Z    | Y            |
| ZLWXC90DXH~ZLWXC230DXH  | 600 | 600 | 2400 | 1000         |
| ZLWXC220DXH~ZLWXC300DXH | 600 | 600 | 3200 | 1000         |
| ZLWXC220DXH~ZLWXC300DXH | 600 | 600 | 3700 | 1000         |

Z: Tube removal space for either end.



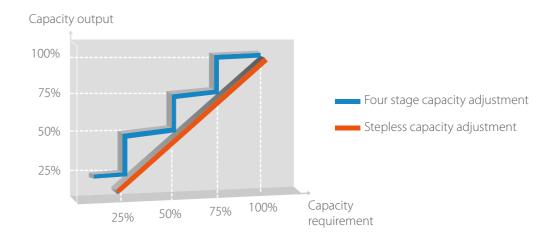
#### Advanced Twin-rotor Screw Compressor



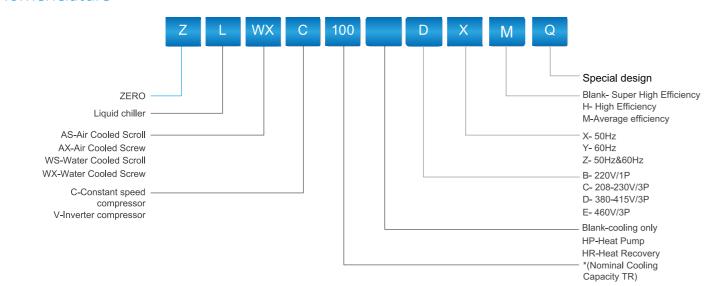
- \* The product adopts a semi-hermetic twin-rotor screw compressor. Compared with open structure, it has the advantages of less refrigerant leakage, high transmission efficiency and no heat dissipation in the equipment room.
- The screw rotor adopts the profile design undergoing the optimized compression process to ensure the compressor has excellent volumetric efficiency and low leakage. At the same time, the twin-screw rotor adopts five teeth to six teeth asymmetric design, machining accuracy up to micron level and ensuring stable operation.
- Large capacity motor design, high motor efficiency. Suitable gas passage and clearance design is adopted inside the motor, and the refrigerant is fixed around the motor to ensure full cooling of the motor.

#### Stepless Capacity Adjustment

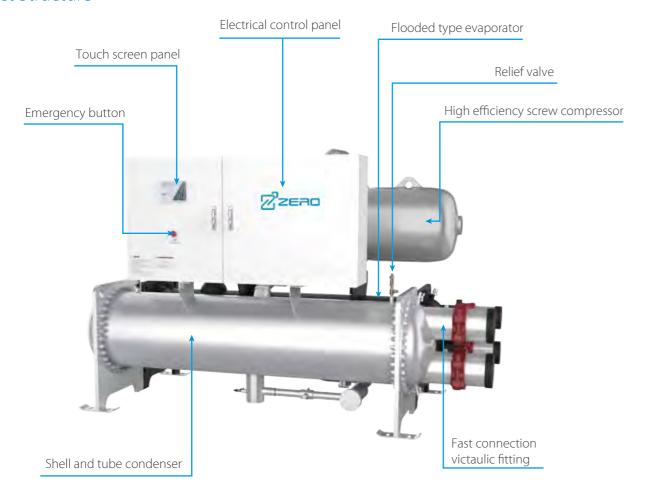
The capacity adjustment system consists of capacity adjust slide valve, solenoid valve and oil pressure piston.



#### Nomenclature



#### **Product Structure**



#### Specifications

| Model              |                       |                    | ZLWXC100M | ZLWXC130M | ZLWXC150M | ZLWXC180M         | ZLWXC200M | ZLWXC230M | ZLWXC250M |  |
|--------------------|-----------------------|--------------------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|--|
| C                  |                       | RT                 | 95.85     | 124.1     | 152.2     | 178.5             | 203.1     | 227.1     | 251.1     |  |
| Cooling capacity   |                       | kW                 | 337.0     | 436.3     | 535.3     | 627.7             | 714.1     | 798.6     | 882.7     |  |
| Power input        |                       | kW                 | 59.75     | 76.68     | 93.61     | 109.9             | 126.9     | 142.3     | 154.3     |  |
| COP                |                       | W/W                | 5.640     | 5.690     | 5.718     | 5.710             | 5.628     | 5.613     | 5.720     |  |
| IPLV               |                       | W/W                | 6.517     | 6.562     | 6.953     | 6.951             | 7.251     | 6.847     | 6.954     |  |
|                    |                       | Qty                | 1         | 1         | 1         | 1                 | 1         | 1         | 1         |  |
| Compressor         |                       | Туре               |           |           | Semi-he   | ermetic screw com | pressor   |           |           |  |
|                    |                       | Starting<br>method |           |           |           | Wye-Delta         |           |           |           |  |
| Capacity adjust ra | ange                  | metriou            |           |           |           | Stepless          |           |           |           |  |
| 2 (                | Type / R134a          |                    |           |           |           |                   |           |           |           |  |
| Refrigerant        | Charge amount         | kg                 | 100       | 110       | 140       | 140               | 150       | 160       | 170       |  |
| Power supply       | ·                     |                    |           | 1         | 1         | 380V-3Ph-50Hz     |           |           |           |  |
| Rated current      |                       | А                  | 103.2     | 132.4     | 161.6     | 189.8             | 219.1     | 245.6     | 266.5     |  |
| Max. operating cu  | urrent                | А                  | 154.6     | 208.0     | 235.0     | 260.0             | 301.0     | 369.0     | 382.8     |  |
| Starting current   |                       | А                  | 315.0     | 415.0     | 479.0     | 506               | 650.0     | 845.0     | 753.3     |  |
|                    | Water flow            | m³/h               | 52.07     | 67.41     | 82.70     | 97.0              | 110.3     | 123.4     | 136.4     |  |
| Evaporator         | Pressure drop         | kPa                | 37.5      | 43.2      | 38.9      | 51.7              | 55.9      | 49.6      | 45.1      |  |
|                    | Water pipe connection | mm                 | 150       | 150       | 150       | 150               | 150       | 200       | 200       |  |
|                    | Water flow            | m³/h               | 65.65     | 84.90     | 104.1     | 122.1             | 139.2     | 155.7     | 171.6     |  |
| Condenser          | Pressure drop         | kPa                | 53.0      | 58.3      | 60.4      | 62.6              | 61.7      | 63.2      | 65.4      |  |
|                    | Water pipe connection | mm                 | 150       | 150       | 150       | 150               | 200       | 200       | 200       |  |
|                    | Length                | mm                 | 2713      | 2713      | 2713      | 2713              | 2738      | 2970      | 2970      |  |
| Unit dimensions    | Width                 | mm                 | 1200      | 1200      | 1200      | 1200              | 1400      | 1400      | 1400      |  |
|                    | Height                | mm                 | 1796      | 1809      | 1809      | 1986              | 1946      | 2184      | 2184      |  |
| Shipping weight    |                       | kg                 | 2170      | 2190      | 2780      | 2660              | 3140      | 3341      | 3452      |  |
| Running weight     |                       | kg                 | 2300      | 2340      | 2940      | 2830              | 3360      | 3581      | 3702      |  |

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Inverter Water Cooled Screw Chiller

| Model              |                       |                    | ZLWXC300M | ZLWXC340M     | ZLWXC370M                      | ZLWXC400M     | ZLWXC460M     | ZLWXC510M     | ZLWXC600M     |  |  |  |  |
|--------------------|-----------------------|--------------------|-----------|---------------|--------------------------------|---------------|---------------|---------------|---------------|--|--|--|--|
| Cooling capacity   |                       | RT                 | 297.6     | 338.4         | 366.6                          | 397.4         | 456.8         | 502.0         | 591.6         |  |  |  |  |
| Cooling capacity   |                       | kW                 | 1047      | 1190          | 1289                           | 1397          | 1606          | 1765          | 2080          |  |  |  |  |
| Power input        |                       | kW                 | 185.8     | 205.3         | 221.7                          | 240.8         | 278.6         | 304.9         | 360.9         |  |  |  |  |
| COP                |                       | W/W                | 5.634     | 5.796         | 5.813                          | 5.802         | 5.793         | 5.788         | 5.764         |  |  |  |  |
| IPLV               |                       | W/W                | 6.912     | 7.538         | 7.531                          | 7.628         | 7.467         | 7.493         | 7.429         |  |  |  |  |
|                    |                       | Qty                | 1         | 2             | 2                              | 2             | 2             | 2             | 2             |  |  |  |  |
| Compressor         |                       | Туре               |           |               | Semi-hermetic screw compressor |               |               |               |               |  |  |  |  |
|                    |                       | Starting<br>method |           |               |                                | Wye-Delta     |               |               |               |  |  |  |  |
| Capacity adjust ra | ange                  |                    |           |               |                                | Stepless      |               |               |               |  |  |  |  |
| D. C.              | Туре                  | /                  |           |               |                                | R134a         |               |               |               |  |  |  |  |
| Refrigerant        | Charge amount         | kg                 | 245       | 330           | 330                            | 340           | 400           | 400           | 520           |  |  |  |  |
| Power supply       |                       |                    |           | 380V-3Ph-50Hz |                                |               |               |               |               |  |  |  |  |
| Rated current      |                       | А                  | 320.7     | 153.8 / 200.6 | 166.2 / 216.7                  | 207.9 / 207.9 | 239.3 / 239.3 | 263.2 / 263.2 | 311.5 / 311.5 |  |  |  |  |
| Max. operating c   | urrent                | А                  | 396.8     | 235.0 / 301.0 | 235.0 / 301.0                  | 301.0 / 301.0 | 369.0 / 369.0 | 382.8 / 382.8 | 396.8 / 396.8 |  |  |  |  |
| Starting current   |                       | А                  | 888.3     | 479 / 650     | 479 / 650                      | 650 / 650     | 845 / 845     | 753.3 / 753.3 | 888.3 / 888.3 |  |  |  |  |
|                    | Water flow            | m³/h               | 161.7     | 183.8         | 199.1                          | 215.9         | 248.1         | 272.7         | 321.4         |  |  |  |  |
| Evaporator         | Pressure drop         | kPa                | 50.1      | 64.7          | 74.7                           | 64.6          | 74.0          | 77.6          | 80.3          |  |  |  |  |
|                    | Water pipe connection | mm                 | 200       | 200           | 200                            | 200           | 200           | 200           | 250           |  |  |  |  |
|                    | Water flow            | m³/h               | 203.9     | 230.9         | 250.1                          | 271.1         | 311.7         | 342.6         | 404.0         |  |  |  |  |
| Condenser          | Pressure drop         | kPa                | 68.2      | 69.0          | 79.7                           | 77.6          | 77.1          | 79.7          | 79.9          |  |  |  |  |
|                    | Water pipe connection | mm                 | 200       | 200           | 200                            | 200           | 200           | 200           | 250           |  |  |  |  |
|                    | Length                | mm                 | 3265      | 4650          | 4650                           | 4650          | 5180          | 5180          | 5950          |  |  |  |  |
| Unit dimensions    | Width                 | mm                 | 1500      | 1500          | 1500                           | 1500          | 1600          | 1600          | 2000          |  |  |  |  |
|                    | Height                | mm                 | 2256      | 2290          | 2290                           | 2290          | 2390          | 2390          | 2550          |  |  |  |  |
| Shipping weight    |                       | kg                 | 4266      | 6232          | 6232                           | 6415          | 7075          | 7318          | 9326          |  |  |  |  |
| Running weight     |                       | kg                 | 4576      | 6872          | 6872                           | 7125          | 7865          | 8158          | 10866         |  |  |  |  |

<sup>1.</sup> Performance and efficiency are based on 550/590-2018.

Evaporator conditions: water inlet=54°F (12.22°C), water outlet=44°F (6.67°C), fouling factor=0.00010h-ft2-°F/Btu (0.0176m2. °C/kW); Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h-ft2-°F/Btu (0.0440m2. °C/kW).

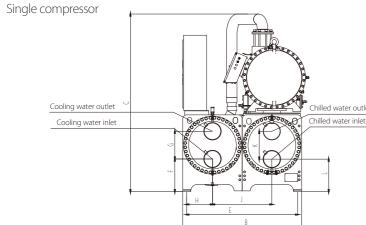
<sup>2.</sup> The design's max working pressure for both the evaporator and condenser are 1.0MPa, but higher pressure can be customized if required.

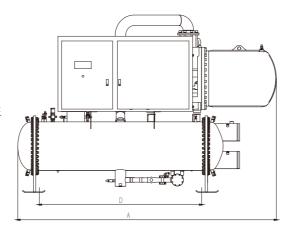
<sup>3.</sup> As a result of the continuous improvement of the product, the above parameters may be changed, please refer to the software selection and the actual

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#### Dimensions

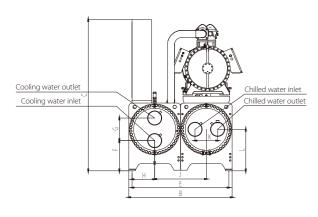
380V-3Ph-50Hz

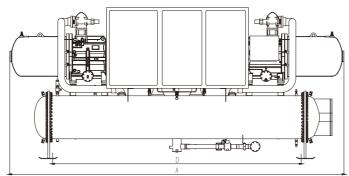




|           |      |      |      |      |      |     |     |     |     | Į   | Jnit: mm |
|-----------|------|------|------|------|------|-----|-----|-----|-----|-----|----------|
| Model     | А    | В    | С    | D    | Е    | F   | G   | Н   | J   | К   | L        |
| ZLWXC100M | 2713 | 1200 | 1796 | 2050 | 1100 | 381 | 260 | 250 | 600 | 260 | 381      |
| ZLWXC130M | 2713 | 1200 | 1809 | 2050 | 1100 | 381 | 260 | 250 | 600 | 260 | 381      |
| ZLWXC150M | 2713 | 1200 | 1809 | 2050 | 1100 | 381 | 260 | 250 | 600 | 260 | 381      |
| ZLWXC180M | 2713 | 1200 | 1986 | 2050 | 1100 | 381 | 260 | 250 | 600 | 260 | 381      |
| ZLWXC200M | 2738 | 1400 | 1946 | 2050 | 1300 | 461 | 260 | 300 | 700 | 260 | 431      |
| ZLWXC230M | 2970 | 1400 | 2184 | 2050 | 1300 | 411 | 300 | 300 | 700 | 260 | 431      |
| ZLWXC250M | 2970 | 1400 | 2184 | 2050 | 1300 | 411 | 300 | 300 | 700 | 260 | 431      |
| ZLWXC300M | 3265 | 1500 | 2256 | 2050 | 1400 | 413 | 300 | 325 | 750 | 350 | 413      |

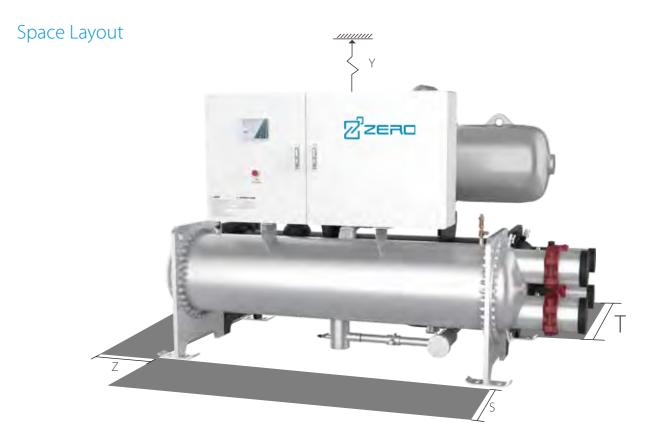
#### Dual compressor





#### Unit: mm

| Model     | А    | В    | С    | D    | E    | F   | G   | Н   | J    | К   | L   |
|-----------|------|------|------|------|------|-----|-----|-----|------|-----|-----|
| ZLWXC340M | 4650 | 1500 | 2290 | 3850 | 1400 | 413 | 300 | 325 | 750  | 350 | 588 |
| ZLWXC370M | 4650 | 1500 | 2290 | 3850 | 1400 | 443 | 350 | 325 | 750  | 350 | 588 |
| ZLWXC400M | 4650 | 1500 | 2290 | 3850 | 1400 | 443 | 350 | 325 | 750  | 350 | 588 |
| ZLWXC460M | 5180 | 1600 | 2390 | 3850 | 1500 | 436 | 350 | 350 | 800  | 350 | 611 |
| ZLWXC460M | 5180 | 1600 | 2390 | 3850 | 1500 | 436 | 350 | 350 | 800  | 350 | 611 |
| ZLWXC600M | 5950 | 2000 | 2550 | 3780 | 1800 | 498 | 470 | 400 | 1000 | 400 | 733 |



Unit: mm

| Dimensions           | S   | Т   | Z    | Y    |
|----------------------|-----|-----|------|------|
| ZLWXC100M~ZLWXC300M  | 600 | 600 | 3200 | 1000 |
| ZLWXC340M ~ZLWXC600M | 600 | 600 | 4200 | 1000 |

Z: Tube removal space for either end.

# Options

| Items                                    | Standard                    | Optional                                 |  |
|--|-----------------------------|--|--|
| Power supply                             | 380V-3Ph-50Hz               | 400/415V-3Ph-50Hz, 380/440/460V-3Ph-60Hz |  |
| Water inlet/outlet connection            | Victaulic                   | Flange                                   |  |
| High pressure water box                  | 1.0MPa                      | 1.6MPa, 2.0MPa                           |  |
| Anti-vibration                           | Rubber pad                  | Spring isolator                          |  |
| Communication protocol                   | Modbus-RTU (RS485)          | BACnet IP, BACnet MS/TP (RJ-45 port)     |  |
| High leaving condenser water temperature | 45°C                        | Up to 55°C                               |  |
| Insulation                               | 20mm                        | 40mm                                     |  |
| Witness performance testing              | ×                           | √  |  |
| Remote control & monitor panel           | e control & monitor panel × |  |  |
| ZERO Chiller Plant Control               | ×                           | √  |  |
| RO Smart Cloud platform ×                |                             | √  |  |
| QuickView                                | ×                           | √  |  |
| Tube automatic cleaning system ×         |                             | √  |  |

Note: For other options, please contact with our engineers.

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## Intelligent Management

#### **ZERO Chiller Plant Control**

ZERO Chiller Plant Control is a group control system for commercial air conditioning that includes air conditioners, water pumps, cooling towers, terminals and related ancillary equipment (including valves, sensors etc.) as the underlying control objects. Based on a powerful control logic program and communication network, it establishes a 3-layer control framework that integrates the equip-ment, control and management layers. ZERO Chiller Plant Control contains a unique operation module from ZERO that is designed to save energy, so in addition to automated stable operations for the various devices, this product also improves and optimizes user management capabilities, reduces labour costs, boosts operational efficiency and lowers the overall energy consumption for commercial air conditioning.

