



SHELTON AIR COOLED CHILLERS SAE-IAC15

with VFD Inverter

Designed Cooling Capacity of 40.3 kW

Outlet temperature preset of 7°C

Inverter Driven High Efficiency Scroll Compressor

Stainless steel chilled water pump

Stainless steel plate type evaporator

145L expansion water tank

Dual Speed low noise condenser fan

Proudly assembled in Singapore



COMPRESSOR

2 No of Compressor (Inverter Driven)

- Japanese Inverter Driven High Efficiency Scroll Compressor
- Power input : 12.4 kW / 22.7 A

Single refrigerant circuit



WATER CIRCUIT

1 No of Circulation Water Pump

- Stainless Steel 304 Horizontal Multistage Centrifugal
- Duty Flow rate : 6.9 m³/hr (30.5 US GPM)
- Duty Pressure : 37 PSI (2.6 Bar)
- Power input : 1.1 kW / 2.6 A

145L Stainless Steel Insulated Buffer Water Tank



AIR COOLED CONDENSER

Dual Speed Axial Fan, Refrigerant pressure controlled

- 2 No of 525mm Diameter, 900 RPM low noise fan
- Air flow of 18000 m³/hr
- Power input : 1.1 kW / 2.6 A

Optimized Copper Tube Aluminum Fin Ambient Air Cooled Condenser



HEAT EXCHANGER

Stainless Steel 316 Copper Brazed Plate Type

Efficient heat transfer with small footprint



POWER REQUIREMENTS

Incoming Power : 3 PH 400V 50Hz
Total Input Power : 14.05 kW
Total Current : 26.8 A
Recommended Breaker : 32A TYPE C/D



CONFIGURATIONS

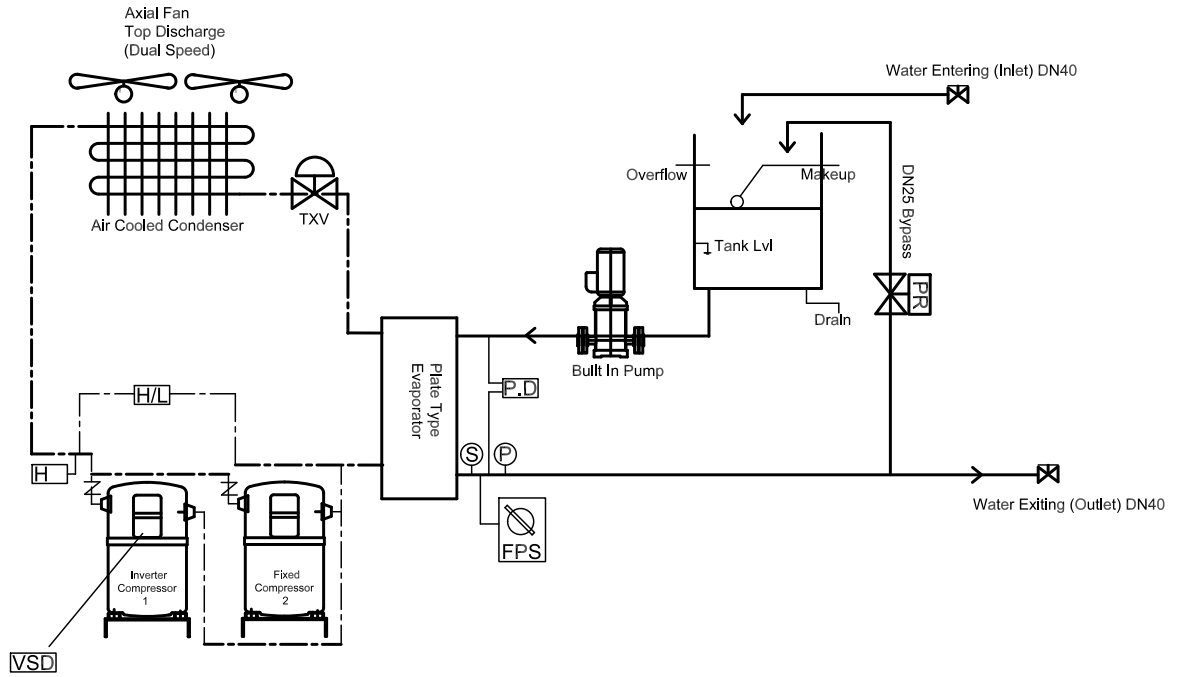
Adjustable Temperature Range : 7°C - 35°C
Capacity Control : Infinite Step-less
Inlet Connection : DN40 (1.5 Inch)
Outlet Connection : DN40 (1.5 Inch)
Length : 1505 mm
Width : 850 mm
Height : 1550 mm
Weight : 450 kg



SAFETY PROTECTION DEVICES

High Refrigerant Discharge Pressure Switch
Low Refrigerant Discharge Pressure Switch
Condenser Overload
Water Pumps Overload
Compressor Overload
Anti Freeze Backup for Primary Sensor
Pressure Differential Flow Switch
Automatic over pressure relief valve

CHILLER SCHEMATIC DRAWING

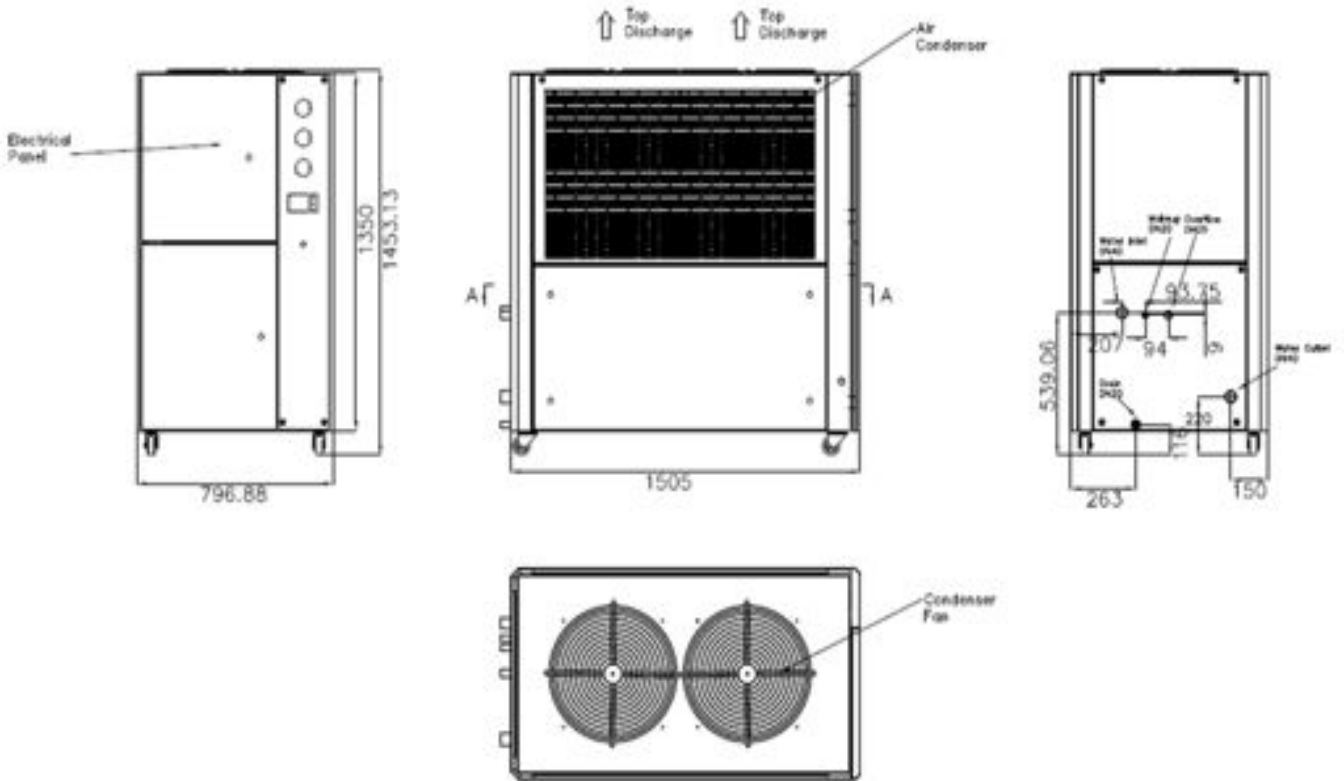


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|---|---|
| P.D Pressure Differential Flow Switch | FPS Freeze Point Sensor |
| H/L Refrigerant High / Low Pressure Switch | S Water Temperature Sensor (Digital) |
| H Refrigerant High Pressure Switch (Condenser Fan) | P Water Pressure Gauge (Analog) |
| TXV Thermal Expansion Valve | P.R Water Over Pressure Relief Valve |
| F.C Fan Speed Controller | Z Refrigerant Check Valve |
| VSD Variable Frequency Drive | |

--- Refrigerant Circuit
 — Water Circuit

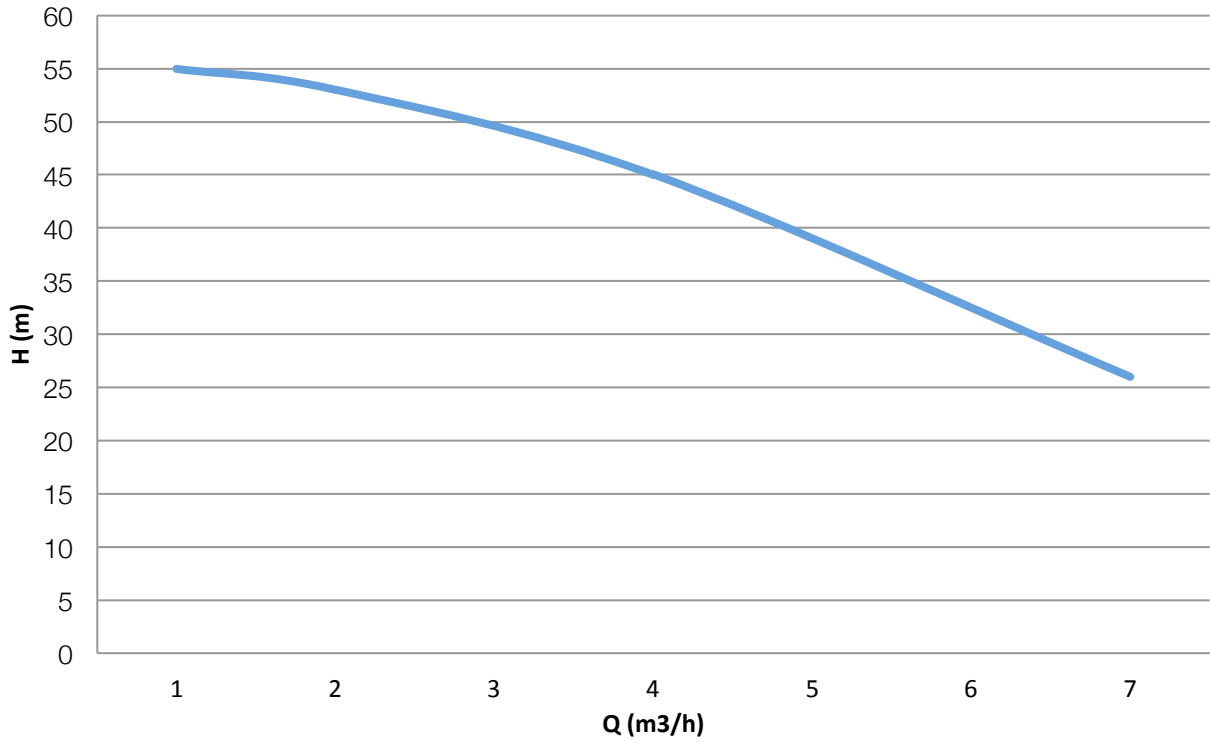
Revised : 06-05-201

CHILLER DIMENSIONAL DRAWING



HYDRAULIC PERFORMANCE

SAE WP 4-60



SAE WP 4-60 1.1 KW / 2.6 A

Q (m³/h)	1	2	3	4	5	6	7
H (m)	55	53	50	45	37	31	26

NOTES :

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