

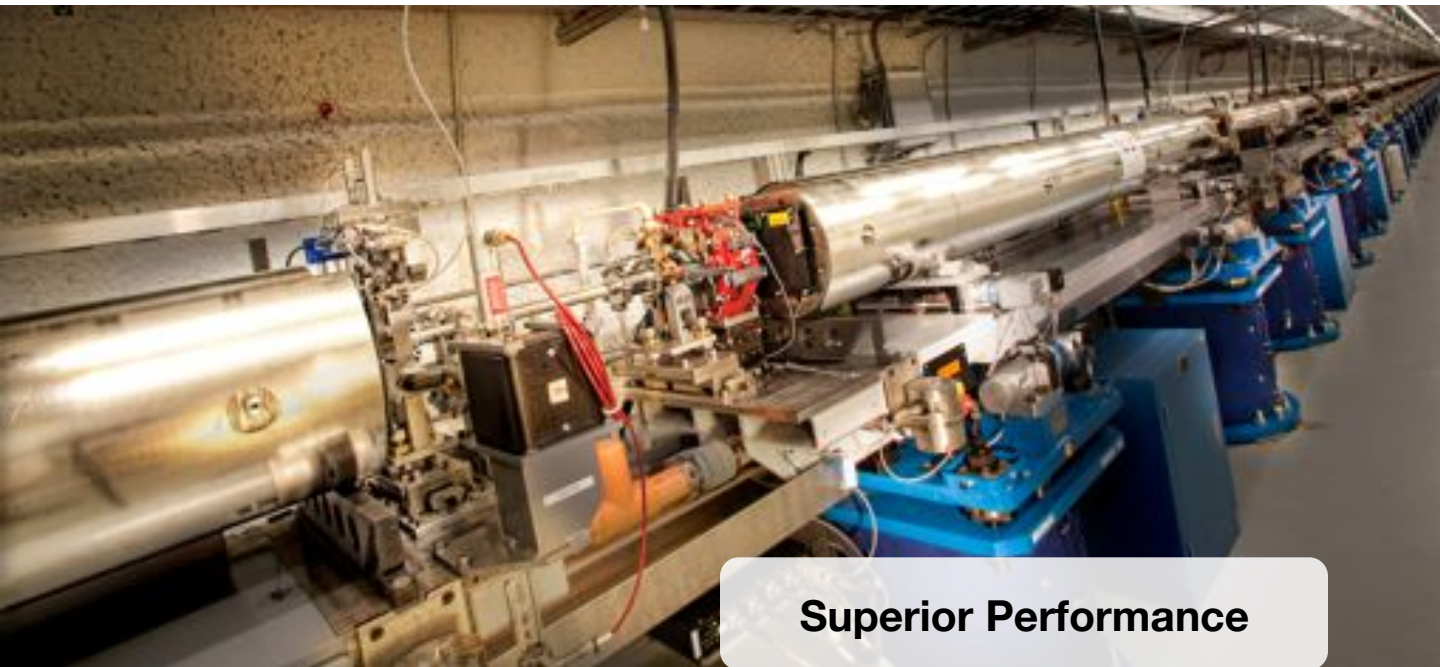
SheltonTM
Chillers
Hot Gas Bypass



SHELTON MINI CHILLERS

Quiet. Reliable

Capacity : below 5.3 kW



Superior Performance

In an era of increasingly demanding industries, Shelton Chillers are designed with rigorous customer demands in mind. The result is an affordable, highly reliable, and customizable chiller.

Incredibly Durable

Shelton Chillers have been widely acclaimed for their durability. Packaged with high performance and enhanced features, they are fit for installation in the most challenging areas.



Panasonic
ideas for life

Panasonic Rotary Compressors

At the heart of Shelton Mini Chillers, is a highly efficient Panasonic Rotary Compressor. Built to withstand extreme conditions, Panasonic compressors ensure optimal performance throughout their service lifespan.



Rigorous Design

Our chillers are made even to withstand rigorous outdoor conditions, and even on offshore applications

Hot Gas Bypass

Hot Gas Bypass installed as a standard feature, increases the lifespan of the chiller unit by eliminating frequent cycling of the chiller unit. No additional heater is required to act as a temperature stabilizer.

Waste heat from air condenser is automatically bypassed to negate all excess unused cooling generated from the chiller.

Precise Temperature Control

For normal applications, a standard temperature stability of up to $\pm 0.5^{\circ}\text{C}$.

Extreme Precision ($\pm 0.1^{\circ}\text{C}$)*

For applications requiring highly precise temperature control, optional PID controller ensures temperature stability of $\pm 0.1^{\circ}\text{C}$.



Solenoid Valves by GMC Italy.

* Available as an add-on feature



Ease of Use

Our chillers provide plug & play solutions to individual machines requiring localized cooling requirements

Advanced Digital Temperature Controller

Provides operator with a easy to view display with large numeric digits for easy referencing. Symbols light up as components are in operation. Compact and powerful, our controllers make chiller operations a breeze



Controllers by Carel Italy.

One Touch Operation

System switches on and off with a simple push of a button.

Our controller intelligently powers up and shuts down all components automatically in correct sequence.

Shelton Chillers are driven by Carel controllers, the largest OEM suppliers of HVAC controllers worldwide.



Advanced Protection

Shelton Chillers are designed to provide heavy industries with constant and reliable heat rejection solutions

Fail Proof Safety Measures

- ✓ Individual overloads of all components
- ✓ High and low refrigerant pressure protection
- ✓ Low water level alarm
- ✓ High and low water temperature alarm
- ✓ Water sensor failure backup sensor
- ✓ Water overpressure bypass
- ✓ Water pressure differential flow switch



Low Noise Axial Fan
Variable Speed Condenser fan for ultra quiet operations

Auxiliary Add-ons

- ✓ Variable Speed Condenser Fan for ultra quiet operations
- ✓ Water Filtration system add-on
- ✓ Condenser Air Inlet Filtration system
- ✓ Precision Flow Meter
- ✓ Water Cooled Condenser for buildings with estate water



Trusted Reliability

We take pride in our quick time-to-market delivery of superior performance, which has earned us numerous recognition from our customers.

Assembled and engineered in Singapore

Shelton Chillers take pride in being homegrown. Every unit that reaches our customers would have been subject to over 20 stringent quality tests, and up to 7 days of field simulation before delivery. It's no surprise, that we are trusted by many as their preferred integrators.



Model	SAE-AC1	SAE-AC2
Refrig. Capacity @ 7°C	2.8 kW 9,000 BTU 2,400 Kcal	5.3 kW 18,000 Btu 4500 Kcal
Refrig. Capacity @ 15°C	3.9 kW 12,465 BTU 3,324 Kcal	7.34 kW 24,930 Btu 6,233 Kcal
Temperature Range	5°C - 35°C up to -20°C option avail.	5°C - 35°C up to -20°C option avail.
Temperature Stability	+/- 0.5°C up to +/- 0.1°C option avail.	+/- 0.5°C up to +/- 0.1°C option avail.
Power Requirement	1Ph 200V 50Hz 13A plug 3 Pin	1Ph 200V 50Hz 15A plug 3 Pin
Consumed Power (Total)	1.55 kW 8.93 A	2.5 kW 12.3 A
Capacity Control	Hot Gas Bypass	Hot Gas Bypass
Refrigerant	R22 / R407c	R22 / R407c
Compressor Type Power Input	1 No of Rotary, Fixed Speed 0.89 kW / 4.78 A	1 No of Rotary, Fixed Speed 1.77 kW / 7.84 A
Condenser Fan Type Power Input	1 No of Quiet Axial Fan 0.11 kW / 0.5 A	1 No of Quiet Axial Fan 0.18 kW / 0.82 A
Water Pump Type Power Input Performance	SS304 Centrifugal Pump 0.55 kW / 3.65 A 2.1 US GPM @ 58 PSI (7.9 L/min @ 4 Bar)	SS304 Centrifugal Pump 0.55 kW / 3.65 A 4.0 US GPM @ 58 PSI (15.1 L/min @ 4 Bar)
Reservoir Vol.	Insulated Welded Tank of SS304 grade, of 16L capacity	Insulated Welded Tank of SS304 grade, of 16L capacity
Evaporator	Copper Brazed, with SS316 Plates	Copper Brazed, with SS316 Plates
Water Inlet / Outlet Connection	DN15 (0.5 Inch)	DN15 (0.5 Inch)
Dimensions	650 mm (Length) 550 mm (Width) 850 mm (Height)	650 mm (Length) 550 mm (Width) 850 mm (Height)
Weight	73 kg	100 kg



Our Factory

Singapore

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