



Shini USA Indoor Portable Air-Cooled Chillers are energy efficient and deliver precise process cooling.

The easy to operate chillers have a 45° to 70°F temperature range and include a high efficiency scroll compressor with R410A Refrigerant.

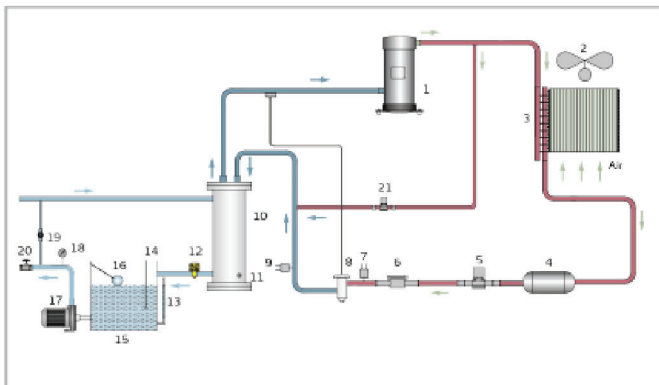
Each Indoor Portable Air-Cooled Chiller has a Powder Coated, heavy-duty sheet metal cabinet with lift-off panels and a fully insulated stainless steel reservoir.

All units are factory tested prior to shipping.

## Features

- 45 - 70°F Operational Temperature Range  
 Maximum Ambient Temperature 95°F
- R410A Refrigerant
- High Efficiency Scroll Compressor
- Copper Tube/Aluminum Fin Condenser
- Easy Access, No Tools Necessary
- Stainless Steel Construction Centrifugal Multi-Stage Pump
- Full Diagnostic Electrical Control Panel
- Brazed Plate Exchanger
- High and Low Side Liquid Filled Refrigerant Pressure Gauges

## Working Principle



1. Compressor
2. Fan
3. Fin Type Condenser
4. Drier Filter
5. Solenoid Valve
6. Refrigerant Indicator
7. High Pressure Switch
8. Expansion Valve
9. Low Pressure Switch
10. Evaporator
11. Hot Gas By-Pass Valve
12. Anti-Freezing Switch
12. Flow Switch
14. Water Tank Level Sensor
15. Temperature Sensor
16. Water Tank
17. Floating Ball Valve
18. Pump
19. Water Pressure Gauge
20. By-Pass Valve
21. Valve

## Specifications

Model	SIC-12A-R2-P	SIC-24A-R2-P	SIC-38A-R2-P
Capacity (nominal tons)	5	10	15.3
Flow Rate (GPM)	11	22	32
# of Compressors	1		
Compressor HP	5	10	15
Cooling Capacity Control	50%-100%		
Full Load Amps			
460 / 3 / 60	15	26	38
230 / 3 / 60	30	51	76
Condenser			
No. of Fans	1	2	2
HP of each	1	0.75	1.4
CFM	1,800	3,000	4,800
Pump			
HP	1	1.5	3
GPM / PSI	11.4 / 40	22.8 / 40	26.9 / 40
Reservoir Capacity (gal)	13	22	40
Process Connection (NPT)	1	1	1.5
Dimensions			
Length (in)	51	51	51
Width (in)	30		
Height (in)	59		
Operating Weight (lbs.)	450	500	850



1. Stainless Steel Water Tank
2. Three (3) Phase Pump
3. High/Low Pressure Gauges
4. Power Switch
5. Pump Pressure Gauge
6. Scroll-Type Compressor
7. Expansion Valve
8. Tube-Fin Condenser
9. Shell & Tube type Evaporator
10. Powder Coated Cabinet

## Other Plastics Auxiliary Equipment from Shini USA



Front Feed Granulators



Hot Air Dryers



Desiccant Dryers



Blenders



Conveyors



Top Feed Granulators



Temperature Control Units



Material Loaders



Chillers



Feeders