



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

The easy to operate chillers have a 45° to 77°F temperature range and include a high efficiency scroll compressor with R410A Refrigerant.

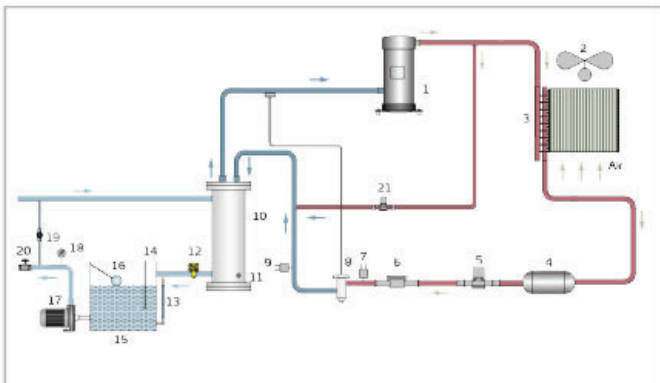
Each Indoor Portable Air-Cooled Chiller has a Powder Coated, heavy-duty sheet metal cabinet with lift-off panels and a fully insulated stainless steel reservoir.

All units are factory tested prior to shipping.

## Design Benefits

- 45 - 77°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             | 12. Anti-Freezing Switch    |
| 2. Fan                    | 13. Flow Switch             |
| 3. Fin Type Condenser     | 14. Water Tank Level Sensor |
| 4. Drier Filter           | 15. Temperature Sensor      |
| 5. Solenoid Valve         | 16. Water Tank              |
| 6. Refrigerant Indicator  | 17. Floating Ball Valve     |
| 7. High Pressure Switch   | 18. Pump                    |
| 8. Expansion Valve        | 19. Water Pressure Gauge    |
| 9. Low Pressure Switch    | 20. By-Pass Valve           |
| 10. Evaporator            | 21. Valve                   |
| 11. Hot Gas By-Pass 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