



Shini USA, the plastics division of Budzar Industries, Inc., combines 50 years of in the plastics auxiliary machinery market.

As a global leader in the manufacture of Dryers, Hopper Loaders, Temperature Controllers, Hot Oil Units, Portable Air-Cooled Chillers, Portable Water-Cooled Chillers, Central Chillers, Grinders and Conveyers, Shini USA offers the latest technology.

Our goal of combining the best in worldwide engineering, design and support insures plastic processors the best quality at a maximum value when buying our products. value and quality.

**Shini USA/Budzar World Alliance Portable Indoor Chillers** deliver feature rich chilling control with excellent accuracy, non-ferrous piping, full diagnostics, insulated S.S. reservoir, and a non-proprietary controller. The vertical air discharge design enhances comfort on your plant by carrying heat up and away from your process and your operators. The heavy duty powder coated cabinet and industrial duty components will stand up to even the harshest operating conditions. Manufactured for indoor use only.



Budzar Industries has been engineering and manufacturing temperature control systems for the Plastics, Rubber, Chemical, Pharmaceutical, Automotive, Die Casting, Web, and Paper industries for over 30 years. This engineering and manufacturing expertise has culminated in the BWA line of Portable Chillers and Temperature Control Modules. Study the list of features on the next page. The listed features are provided as "standard equipment" and exceed all other available standard portable chillers.



Final assembly and thorough testing of each unit is performed at Budzar's facility in Willoughby, Ohio to guarantee each and every unit will start up with ease and perform with the excellence expected of Budzar Industries. We stand behind our products 100%.

**The Shini USA/Budzar World Alliance Portable Indoor Chillers offer these outstanding "Standard" features:**

**CAPACITY:**

- ◆ See table below
- ◆ \*45°F. to 70°F. operational temperature range

**CABINET:**

- ◆ Heavy duty sheet metal cabinet
- ◆ Power coated, light gray
- ◆ Locking swivel casters
- ◆ Lift off side panels

**COMPRESSOR:**

- ◆ High efficiency Copeland scroll

**EVAPORATOR:**

- ◆ Shell & Tube design
- ◆ Steel Shell, Copper Tubes

**CONDENSER:**

- ◆ **Air Cooled Model**
  - Copper tube / aluminum fin, air-cooled
  - Over sized for lower operating head pressure
  - Vertical air discharge improves comfort by blowing heat up and away from plant personnel
- ◆ **Water Cooled Model**
  - Shell & Tube design
  - Steel Shell, Copper Tubes

**REFRIGERANT CIRCUIT:**

- ◆ Liquid line solenoid valve / shut-off valve
- ◆ Filter / drier, sight glass / moisture indicator
- ◆ One (1) Hot gas bypass valve (capacity modulation)
- ◆ Head pressure control via fan motor cycling

**PUMP / WATER CIRCUIT:**

- ◆ Stainless steel construction, Centrifugal, Multi-Stage Pump
- ◆ Fully insulated stainless steel reservoir
- ◆ Automatic Fill Valve
- ◆ Non-ferrous pipe
- ◆ Spring Loaded automatic water by-pass to prevent no flow condition which could lead to freezing the evaporator

**ELECTRICAL:**

- ◆ Lockable NEMA-1 enclosure, lights and switches
- ◆ Intended for indoor placement only
- ◆ Finger Safe electrical enclosure
- ◆ Siemens electrical components
- ◆ Motor circuit protectors
- ◆ Full diagnostic panel
  - Phase Monitor
  - Motor or Compressor Overload
  - High and Low Pressure trips
  - Low Temperature
  - Audible alarm
- ◆ Illuminated control power fuse
- ◆ 10' power cord

**CONTROL & DISPLAY:**

- ◆ High Side Refrigerant Pressure Gauge (liquid filled)
- ◆ Low Side Refrigerant Pressure Gauge (liquid filled)
- ◆ Pump discharge Pressure Gauge (liquid filled)
- ◆ Compressor suction pressure
- ◆ Compressor discharge pressure
- ◆ Process supply temperature
- ◆ Compressor and pump status

Indoor BWA Air-Cooled Model	BWA AC-3	BWA AC-5	BWA AC-8	BWA AC-10	BWA AC-15	BWA AC-20	BWA AC-30	BWA AC-40
Capacity (nominal tons)	2.9	4.8	7.9	9.7	14.6	19.2	28.5	39
No. of Compressors	1	1	1	1	1	2	2	2
Compressor HP	3	5	8	10	15	2 x 10	2 x 15	2 x 20
Cooling Capacity Control	0-50%-100%	0-50%-100%	0-50%-100%	0-50%-100%	0-50%-100%	0-25%-50%-100%	0-25%-50%-100%	0-25%-50%-100%
Full Load Amps								
460 / 3 / 60	11.3	16.7	26.1	28.1	42.7	55.5	81.4	98.1
230 / 3 / 60	22.6	33.4	52.2	56.2	85.4	111	162.8	
Condenser								
No. of Fans	2	2	2	2	2	2	2	3
HP of each	1/5	1/5	1/4	1/2	1/3	34	1	1
CFM	1,800	3,000	4,800	6,000	9,000	12,000	18,000	24,000
Pump								
HP	1	1	1.5	1.5	2	3	5	5
GPM / PSI	7 / 40	12 / 40	19 / 40	24 / 40	36 / 40	48 / 40	72 / 40	96 / 40
Reservoir Capacity (gal)	11	11	16	30	30	40	70	70
Process Connection (npt)	1"	1"	1 1/2"	1 1/2"	2"	2"	2 1/2"	2 1/2"
Dimensions								
Length (inches)	51	51	63	63	69	110	110	154
Width (inches)	30	30	30	36	36	40	51	58
Height (inches)	59	59	59	59	63	79	87	88
Shipping Weight (lbs)	400	500	850	880	1300	2310	2680	3300

Indoor BWA Water-Cooled Model	BWA WC-3	BWA WC-5	BWA WC-8	BWA WC-10	BWA WC-15	BWA WC-20	BWA WC-30
Capacity (nominal tons)	3.1	5.2	8	10.1	14.9	19.8	29.2
No. of Compressors	1	1	1	1	1	2	2
Compressor HP	3	5	8	10	15	2 x 10	2 x 15
Cooling Capacity Control	0-50%-100%	0-50%-100%	0-50%-100%	0-50%-100%	0-50%-100%	0-25%-50%-100%	0-25%-50%-100%
Full Load Amps							
460 / 3 / 60	10.7	15.6	26.8	27.9	40.6	52.5	78
230 / 3 / 60	21.4	31.2	53.6	55.8	81.2	105	156
Condenser Water Flow							
Tower Water @ 30 PSI	9	15	24	30	45	60	90
City Water @ 30 PSI	7.2	12	19.2	24	36	48	72
Condenser Connection	1"	1"	1 1/2"	1 1/2"	2"	2"	2 1/2"
Pump							
HP	1	1	1.5	1.5	2	3	5
GPM / PSI	7 / 40	12 / 40	19 / 40	24 / 40	36 / 40	48 / 40	72 / 40
Reservoir Capacity (gal)	11	11	16	30	30	40	70
Process Connection (npt)	1"	1"	1 1/2"	1 1/2"	2"	2"	2.5"
Dimensions							
Length (inches)	43	43	45	45	61	79	79
Width (inches)	24	24	30	30	36	40	44
Height (inches)	38	38	40	40	49	56	59
Shipping Weight (lbs)	500	650	880	900	1400	1650	1760

