



**MADE TO DELIVER  
BEST-IN-CLASS PRESERVATION.**

**Hermetic Series**  
Refrigeration Systems



Blue Star, India's leading refrigeration company, offers a complete range of evaporating and condensing units. These units are designed to deliver superior cooling for food preservation and are equipped to deliver temperatures for various applications.

The balanced selection of the evaporator and condensing units assures delivery of capacity. The matching controllers with refrigeration units support each installation and enable the controlling and monitoring of temperature. Each Blue Star installation comes with a weather-proof power panel that allows for easy, speedy, safe and long-lasting power connection. So when it comes to cold storage, trust in the experts for reliable, efficient and trouble-free refrigeration.





## Evaporating Units

Blue Star's evaporators are compact and sleek. The evaporator is housed within the cold storage and occupies minimum space. This allows you to utilise the maximum volume of cold storage.

### Features:



Stainless steel body (SS304) for enhanced durability and strength



Improved air throw for uniform air distribution



Excellent corrosion resistance



External rotor driven fans have low noise levels and conform to IP45 standards



Inner grooved copper tubes for superior heat transfer



Removable side panels for easy service and minimum downtime



4 FPI coil for medium & low temperature units



Defrost heaters within the coil to ensure total defrost



## Condensing Units



Blue Star's condensing units are characterised by high-efficiency heat transfer and low power consumption.

### Features:



Energy-efficient scroll and reciprocating compressors



Powder coated body makes these units UV and corrosion-resistant



Inner grooved copper tubes and slit aluminium fins for superior heat transfer



Filter drier for moisture and dirt protection



Smaller footprint for ease of handling and installation



Pre-charged unit with service valves



Safety and control devices for better system protection



Weather-proof polyester powder coated canopy



Thermally protected and permanently lubricated fan motors

# Controller

## Positive Room Temperature Controller:

### Features:

- Specifically designed for refrigeration applications
- Controls compressor cut off and temperature
- Fault Alarm indication
- Two-compressor controller with separate set points and differentials



## Medium & Negative Room Temperature Controller:

### Features:

- 4 Digit, 1" Dot matrix Display to display all parameters
- Precise temperature Range : - 50.0°C to + 50.0°C and Resolution 0.1° C
- Computer Connectivity over RS485
- HP/LP, AUX faults for compressor protection
- Defrost heater operation based on compressor run hrs.



# Power Panel

Blue Star's Refrigeration Units come with ready-to-use power panels that make electrical connections simple, fast and long-lasting.

### Features:

- Embedded switchgear in the Positive Temperature Condensing Unit
- Power Panel with necessary accessories and defrost controls is available for Medium & Low Temperature Units

# Technical Specifications

## High Temperature Air-Cooled Refrigeration System with R404A Refrigerant

Blue Star Indoor Unit		Cooling Capacities @ +4°C Room Temperature									
Description /Model	Units	RUAH 00614KP-I	RUAH 01014KP-I	RUAH 01514KP-I	RUAH 02014KP-I	RUAH 03014CS-I-N	RUAH 04014CS-I-N	RUAH0 6024CS-I-N	RUAH 06014CS-I-N	RUAH 08024CS-I-N	RUAH 08014CS-I-N
Nominal Capacity	Btu/hr	6,000	10,000	15,000	20,000	30,000	40,000	60,000	60,000	80,000	80,000
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50	415/3/50
Fan Motor	Watt	85	85	85	85	250	380	815	815	815	815
	Qty	1	2	3	4	2	2	2	2	2	2
Airflow	CFM	800	1600	2400	3200	4580	5230	12000	12000	11700	11700
Air Throw	Feet	12	14	16	16	25	40	45	45	45	45
No. of Circuits	Nos.	1	1	1	1	1	1	2	1	2	1
Overall Dimensions (WxDxH)	mm	864x480x450	1245x480x450	1780x480x450	2210x480x450	1707x646x718	1707x646x718	2142x841x956	2142x841x956	2142x841x956	2142x841x956
Dry Weight	kgs	18	25	35	45	75	85	140	140	150	150

Blue Star Outdoor Unit		Cooling Capacities @ +4°C Room Temperature										
Description/ Model	Units	RUAH OP0614	RUAH OP1014	RUAH OP1514	RUAH OS2014	RUAH OS3014	RUAH OS4014	RUAH OS3014	RUAH OS6014	RUAH OS4014	RUAH OS8014	RUAH OS12014
Nominal Capacity	Btu/hr	6,000	10,000	15,000	20,000	30,000	40,000	2 x 30,000 =60,000	60,000	2 x 40,000 =80,000	80,000	1,20,000
Compressor Type	-	Hermetic Recip	Hermetic Recip	Hermetic Recip	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1	1	1	1	1	1 in each chassis	1	1 in each chassis	1	1
No. of such Chassis	Nos.	1	1	1	1	1	1	2 x RUAHOS3014	1	2 x RUAHOS4014	1	1
Each Chassis Overall Dimensions (WxDxH)	mm	910x370x560	910x370x560	910x370x560	1082x464x657	1082x 464x1261	1082x464x1261	1082x464x1261	1532x654x947	1082x 464x1261	1532x654x947	1450x880x1115
Each Chassis Dry Weight	kgs	51	61	80	110	125	132	125	185	132	190	275
Each Chassis Refrigerant Precharged Qty	kgs	1.2	1.6	2	2.5	3.5	4	3.5	8	4	9	12

**Note:** Specifications are subject to change without prior notice  
Cooling capacity at the Rated condition 35 Amb Temp/+4°C Room Temp /10SH  
Units tested up to 50°C ambient as per standard

# Technical Specifications

## High Temperature Air-Cooled Refrigeration System with R22 Refrigerant

Blue Star Indoor Unit		Cooling Capacities @ +4°C Room Temperature								
Description /Model	Units	RUAH 00612KP-I	RUAH 01012KP-I	RUAH 01512KP-I	RUAH 02012KP-I	RUAH 03012CS-I-N	RUAH 04012CS-I-N	RUAH 06022CS-I-N	RUAH 08022CS-I-N	RUAH 08012CS-I-N
Nominal Capacity	Btu/hr	6,000	10,000	15,000	20,000	30,000	40,000	60,000	80,000	80,000
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50
Fan Motor	Watt	85	85	85	85	250	380	815	815	815
	Qty	1	2	3	4	2	2	2	2	2
Airflow	CFM	800	1600	2400	3200	4580	5230	12000	11700	11700
Air Throw	Feet	12	14	16	16	25	40	45	45	45
No. of Circuits	Nos.	1	1	1	1	1	1	2	2	1
Overall Dimensions (WxDxH)	mm	864x480x450	1245x480x450	1780x480x450	2210x480x450	1707x646x718	1707x646x718	2142x841x956	2142x841x956	2142x841x956
Dry Weight	kgs	18	25	35	45	75	85	140	150	150

Blue Star Outdoor Unit		Cooling Capacities @ +4°C Room Temperature								
Description /Model	Units	RUAH 00612KP-0	RUAH 01012KP-0	RUAH 01512KP-0	RUAH 02012KP-0	RUAH 03012CS-0	RUAH 04012CS-0	RUAH 03012CS-0	RUAH 04012CS-0	RUAH OS08012
Nominal Capacity	Btu/hr	6,000	10,000	15,000	20,000	30,000	40,000	2 x 30,000 =60,000	2 x 40,000 =80,000	80,000
Compressor Type	-	Hermetic Recip	Hermetic Recip	Hermetic Recip	Hermetic Recip	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1	1	1	1	1	1 in each chassis	1 in each chassis	1
No. of such Chassis	Nos.	1	1	1	1	1	1	2 x RUAH 03012CS-0	2 x RUAH 04012CS-0	1
Each Chassis Overall Dimensions (WxDxH)	mm	910x370x560	910x370x560	910x370x560	1082x464x657	1082x464x1261	1082x464x1261	1082x464x1261	1082x464x1261	1532x654x947
Each Chassis Dry Weight	kgs	51	61	80	110	125	125	125	125	190
Each Chassis Refrigerant Precharged Qty	kgs	1.2	1.6	2	2.5	3.5	4	3.5	4	9

**Note:** Specifications are subject to change without prior notice  
Cooling capacity at the Rated condition 35 Amb Temp/+4°C Room Temp /10SH  
Units tested up to 50°C ambient as per standard

# Technical Specifications

## High Temperature Air-Cooled Refrigeration System with R410A Refrigerant

Blue Star Indoor Unit		Cooling Capacities @ +18°C Room Temperature			
Description/Model	Units	RUAH03611-I	RUAH06611-I	RUAH10211-I	RUAH13211-I
Nominal Capacity	Btu/hr	36,000	66,000	1,02,000	1,32,000
Power Supply	V/Ph/Hz	230/1/50	230/1/50	415/3/50	415/3/50
Fan Motor	Watt	85	380	815	815
	Qty	4	2	2	2
Airflow	CFM	3200	5230	12000	11700
Air Throw	Feet	16	40	45	45
No. of Circuits	Nos.	1	1	1	1
Overall Dimensions (WxDxH)	mm	2210x480x450	1707x646x718	2142x841x956	2142x841x956
Dry Weight	kgs	45	85	140	150

Blue Star Outdoor Unit		Cooling Capacities @ +18°C Room Temperature			
Description/Model	Units	RUAHOR3611	RUAHOS6611	RUAHOS10211	RUAHOS13211
Nominal Capacity	Btu/hr	36,000	66,000	1,02,000	1,32,000
Compressor Type	-	Hermetic Rotary	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1	1	1
No. of such Chassis	Nos.	1	1	1	1
Each Chassis Overall Dimensions (WxDxH)	mm	850x800x310	1020x933x416	1320x924x416	1435x947x635
Each Chassis Dry Weight	kgs	80	90	150	190
Each Chassis Refrigerant Precharged Qty	kgs	2	4	5	6

**Note:** Specifications are subject to change without prior notice

Cooling capacity at the Rated condition 35 Amb Temp/+18°C Room Temp /10SH

Units tested up to 50°C ambient as per standard



# Technical Specifications

## Medium Temperature Air-Cooled Refrigeration System with R404A Refrigerant

Blue Star Indoor Unit		Cooling Capacities @ -5°C Room Temperature			
Description/Model	Units	RUAM01214-I-N	RUAM01514-I-N	RUAM02014-I-N	RUAM03514-I-N
Nominal Capacity	Btu/hr	12,000	15,000	20,000	35,000
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Fan Motor	Watt	85	85	85	380
	Qty	2	3	4	2
Airflow	CFM	1600	2400	3200	5500
Air Throw	Feet	14	16	16	40
No. of Circuits	Nos.	1	1	1	1
Overall Dimensions (WxDxH)	mm	1250x480x440	1780x480x440	2210x480x440	1710x645x720
Dry Weight	kgs	37	45	58	89

Blue Star Outdoor Unit		Cooling Capacities @ -5°C Room Temperature			
Description/Model	Units	RUAM01214-O	RUAM01514-O	RUAM02014-O	RUAM03514-O
Nominal Capacity	Btu/hr	12,000	15,000	20,000	35,000
Compressor Type	-	Hermetic Recip	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1	1	1
No. of such Chassis	Nos.	1	1	1	1
Each Chassis Overall Dimensions (WxDxH)	mm	1100x464x660	1100x464x660	1100x464x1260	1100x464x1260
Each Chassis Dry Weight	kgs	83	86	131	136
Each Chassis Refrigerant Precharged Qty	kgs	2.5	2.5	3.5	4

**Note:** Specifications are subject to change without prior notice  
Cooling capacity at the Rated condition 35 Amb Temp/-5°C Room Temp /10SH  
Units tested up to 50°C ambient as per standard

# Technical Specifications

## Low Temperature Air-Cooled Refrigeration System with R404A Refrigerant

Blue Star Indoor Unit		Cooling Capacities @ -23°C Room Temperature				
Description/Model	Units	RUAL00614-I-N	RUAL00914-I-N	RUAL01214-I-N	RUAL01814-I-N1	RUAL02414-I-N
Nominal Capacity	Btu/hr	6,000	9,000	12,000	18,000	24,000
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
Fan Motor	Watt	85	85	85	380	815
	Qty	2	3	4	2	2
Airflow	CFM	1600	2400	3200	5500	11700
Air Throw	Feet	14	16	16	40	45
No. of Circuits	Nos.	1	1	1	1	1
Overall Dimensions (WxDxH)	mm	1245x480x450	1780x480x450	2210x480x450	1707x646x718	2142x841x956
Dry Weight	kgs	37	45	58	89	135

Blue Star Outdoor Unit		Cooling Capacities @ -23°C Room Temperature				
Description/Model	Units	RUAL00614S-0-N1	RUAL00914S-0-N1	RUAL01214S-0-N1	RUAL01814S-0-N1	RUAL02414S-0-N1
Nominal Capacity	Btu/hr	6,000	9,000	12,000	18,000	24,000
Compressor Type	-	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1	1	1	1
No. of such Chassis	Nos.	1	1	1	1	1
Each Chassis Overall Dimensions (WxDxH)	mm	1222x539x669	1222x539x669	1240x539x962	1240x539x962	1240x539x962
Each Chassis Dry Weight	kgs	105	115	117	135	148
Each Chassis Refrigerant Precharged Qty	kgs	2.5	3	4	5	6

Blue Star Outdoor Unit		Cooling Capacities @ -23°C Room Temperature	
Description/Model	Units	RUAL00614P-0	RUAL00914P-0
Nominal Capacity	Btu/hr	6,000	9,000
Compressor Type	-	Hermetic Recip	Hermetic Recip
Power Supply	V/Ph/Hz	415/3/50	415/3/50
Comp. Quantity	Nos.	1	1
No. of such Chassis	Nos.	1	1
Each Chassis Overall Dimensions (WxDxH)	mm	1222x539x669	1222x539x669
Each Chassis Dry Weight	kgs	80	93
Each Chassis Refrigerant Precharged Qty	kgs	2.5	3

**Note:** Specifications are subject to change without prior notice  
Cooling capacity at the Rated condition 35 Amb Temp/-23°C  
Room Temp /10SH Units tested up to 50°C ambient as per standard





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Blue Star products comply with RoHS regulations as per E-Waste (Management & Handling) Rules, 2016. For disposal of E-Waste, kindly visit our website [www.bluestarindia.com](http://www.bluestarindia.com) or call our customer care 1800 209 1177 (Toll Free) or 1860 266 6666.