



## Refrigeration Systems Hermetic Series

It's not just preservation.  
It's the ultimate in preservation.



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



6 FPI coil to enable air-defrosting



# 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



Pre-charged unit with service valves



Powder coated body makes these units UV and corrosion-resistant



Safety and control devices for better system protection



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



Weather-proof polyester powder coated canopy



Filter drier for moisture and dirt protection



Thermally protected and permanently lubricated fan motors



Smaller footprint for ease of handling and installation



## Controller



Blue Star's controller is a two compressor controller with separate set points and differentials for each compressor.

### Features:

- Specifically designed for refrigeration applications
- Controls compressor cut off and temperature
- HACCP provision (available in model 52H)
- BMS compatibility (available in model 52H)

## 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 Negative Temperature Units





# Technical Specifications

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

Blue Star Indoor Unit		Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature								
Description / Model	Units	RUAHI-0614	RUAHI-1014	RUAHI-1514	RUAHI-2014	RUAHI-3014-N	RUAHI-4014-N	RUAHI-6024-N	RUAHI-8024-N	RUAHI-8014-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
Airflow	CFM	800	1,600	2,400	3,200	4,500	5,200	12,000	11,700	11,700
Air Throw	Feet	12	12	12	12	25	40	45	45	45
No. of Circuits	Nos.	1	1	1	1	1	1	2	2	1
Overall Dimensions (W x D x H)	mm	864 x 480 x 450	1245 x 480 x 450	1780 x 480 x 450	2210 x 480 x 450	1710 x 645 x 720	1710 x 645 x 720	2140 x 840 x 925	2140 x 840 x 925	2140 x 840 x 925
Dry Weight	kgs	18	25	35	45	72	82	140	150	150

Blue Star Outdoor Unit		Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature								
Description / Model	Units	RUAHOP-0614	RUAHOP-1014	RUAHOP-1514	RUAHOS-2014	RUAHOS-3014	RUAHOS-4014	RUAHOS-3014	RUAHOS-4014	RUAHOS-8014
Compressor Type	-	Hermetic Recip	Hermetic Recip	Hermetic Recip	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
Comp. Quantity	Nos.	1	1	1	1	1	1	1	1	1
No. of such Chassis	Nos.	1	1	1	1	1	1	2	2	1
Each Chassis Overall Dimensions (W x D x H)	mm	940 x 350 x 560	940 x 350 x 560	940 x 350 x 560	1100 x 444 x 658	1100 x 444 x 1259	1100 x 444 x 1259	1100 x 444 x 1259	1100 x 444 x 1259	1454 x 632 x 947
Each Chassis Dry Weight	kgs	50	51	80	105	126	130	126	130	185
Each Chassis Refrigerant Precharged Qty	kgs	1.2	1.6	2.0	2.5	3.5	4.0	3.5	4.0	Charged During Installation

\*Product under development

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

Blue Star Indoor Unit		Cooling Capacities @ -23°C Room Temperature & 35°C Ambient Temperature			
Description / Model	Units	RUALI-0614	RUALI-0914	RUALI-1214	RUALI-1814
Nominal Capacity**	Btu/hr	6,000	9,000	12,000	18,000
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Airflow	CFM	1600	2400	3200	5500
Air Throw	feet	12	12	12	25
No. of Circuits	Nos.	1	1	1	1
Overall Dimensions (W x D x H)	mm	1245 x 375 x 450	1780 x 375 x 450	2210 x 375 x 450	2085 x 660 x 670
Dry Weight	kgs	25	35	45	120

Outdoor Unit		OPTION - 1			
Description / Model	Units	ZXL020E	ZXL025E	ZXL035E	ZXL050E
Compressor Type	-	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
Quantity	Nos.	1	1	1	1
Overall Dimensions (W x D x H)	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242
Dry Weight	kgs	79	81	93	106
Refrigerant Precharged Qty	kgs	Nitrogen Charge	Nitrogen Charge	Nitrogen Charge	Nitrogen Charge

Outdoor Unit		OPTION - 2			
Description / Model	Units	LGZ028	LGZ040	LGZ050	LGZ088
Compressor Type	-	Hermetic Recip	Hermetic Recip	Hermetic Recip	Hermetic Recip
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Quantity	Nos.	1	1	1	1
Overall Dimensions (W x D x H)	mm	800 x 600 x 442	800 x 600 x 442	1000 x 700 x 555	1200 x 800 x 671
Dry Weight	kgs	62	69	98	144
Refrigerant Precharged Qty	kgs	Nitrogen Charge	Nitrogen Charge	Nitrogen Charge	Nitrogen Charge



# Technical Specifications

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

Blue Star Indoor Unit		Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature								
Description / Model	Units	RUAHI-0612	RUAHI-1012	RUAHI-1512	RUAHI-2012	RUAHI-3012-N	RUAHI-4012-N	RUAHI-6022-N	RUAHI-8022-N	RUAHI-8012-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
Airflow	CFM	800	1,600	2,400	3,200	4,500	5,200	12,000	11,700	11,700
Air Throw	Feet	12	12	12	12	25	40	45	45	45
No. of Circuits	Nos.	1	1	1	1	1	1	2	2	1
Overall Dimensions (W x D x H)	mm	864 x 480 x 450	1245 x 480 x 450	1780 x 480 x 450	2210 x 480 x 450	1710 x 645 x 720	1710 x 645 x 720	2140 x 840 x 925	2140 x 840 x 925	2140 x 840 x 925
Dry Weight	kgs	18	25	35	45	72	82	140	150	150

Blue Star Outdoor Unit										
Description / Model	Units	RUAHOP-0612	RUAHOP-1012	RUAHOP-1512	RUAHOP-2012	RUAHOS-3012	RUAHOS-4012	RUAHOS-6022	RUAHOS-8022	RUAHOS-8012
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	1	1
No. of such Chassis	Nos.	1	1	1	1	1	1	2 x RUAHOS-3012	2 x RUAHOS-4012	1
Each Chassis Overall Dimensions (W x D x H)	mm	940 x 350 x 560	940 x 350 x 560	940 x 350 x 560	1100 x 444 x 658	1100 x 444 x 1259	1100 x 444 x 1259	1100 x 444 x 1259	1100 x 444 x 1259	1454 x 632 x 947
Each Chassis Dry Weight	kgs	51	61	80	110	125	125	125	125	185
Each Chassis Refrigerant Precharged Qty	kgs	1.2	1.6	2.0	2.5	3.5	4.0	3.5	4.0	Charged During Installation

**Note:** Specifications are subject to change without prior notice.  
Refrigeration capacity is based on standard rate conditions.



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