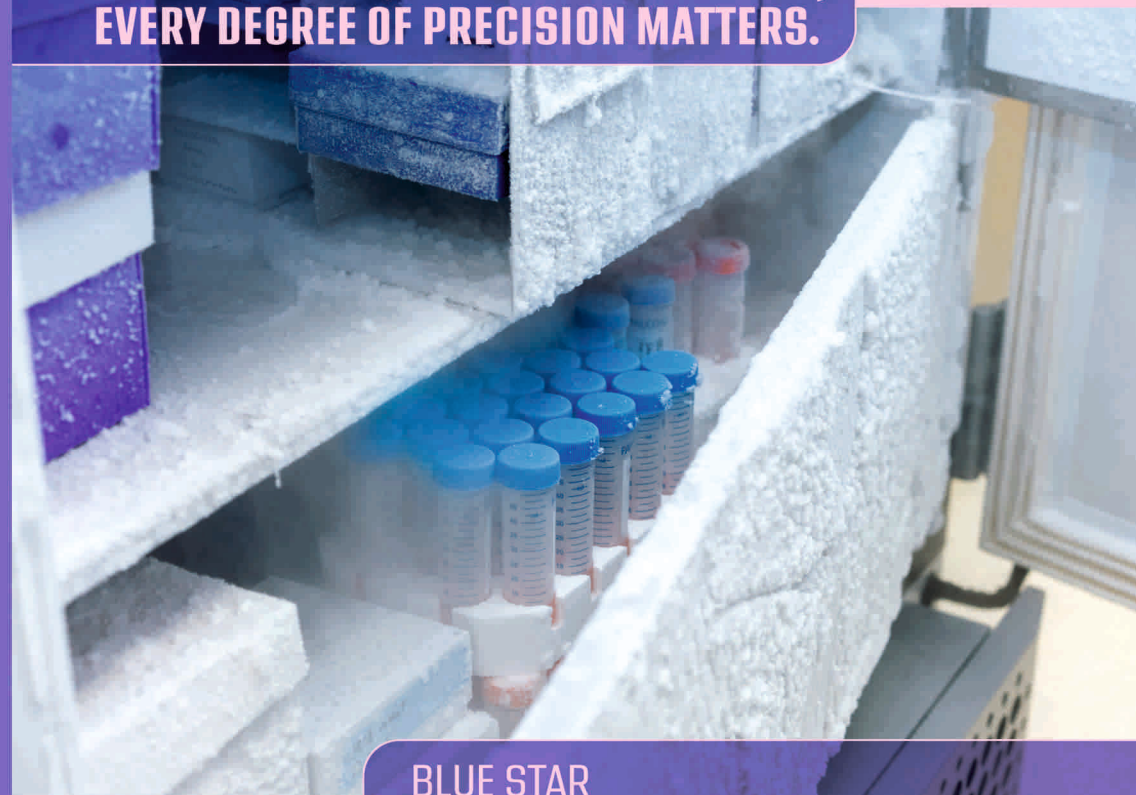


**WHEN IT'S A QUESTION OF SAFETY,
EVERY DEGREE OF PRECISION MATTERS.**



BLUE STAR
-86°C Ultra Low Temperature Freezers



For more information, please contact **BLUE STAR LIMITED** • **Ahmedabad:** 301-302, Abhishek Avenue, Near Nehru Nagar Circle, S M Road, Ambawadi, Ahmedabad - 380 015, India. Phone: (+91) (79) 4022 4000. • **Bengaluru:** Anjuman Kay Arr Tower, No 28, Ward No 77, Mission Road, Bengaluru - 560 027. Phone: (+91) (80) 4185 4000. Fax: (+91) (80) 4185 4001. • **Bhubaneswar:** 3A, Satya Nagar, 2nd Floor, Bhubaneswar - 751 007. Phone: (+91) (674) 2572403/2573670/2570024. Fax: (+91) (674) 257 0544. • **Chandigarh:** Adarsh Mall, 4th Floor, Plot No 50, Industrial & Business Park, Phase - II, Chandigarh - 160 002. Phone: (+91) (172) 502 4000. Fax: (+91) (172) 500 4007. • **Chennai:** KRM Plaza, No 2, Harrington Road, Chetpet, Chennai - 600 031. Phone: (+91) (44) 4244 4000. Fax: (+91) (44) 2836 2101. • **Goa:** 210, 2nd Floor, Gera's Imperium I, Patto, Panjim, Goa - 403 001. Phone: (+91) (832) 2438171/2437287. • **Gurugram:** 8th Floor, Vatika Atrium, Golf Course Road, Sector 53, Gurugram - 122 002 (Haryana). Phone: (+91) (124) 409 4000. Fax: (+91) (124) 409 4004. • **Guwahati:** Oasis Plaza, 1st Floor, Dr. B. Barooah Road, Ulubari, Kamrup, Guwahati - 781 007. Assam (Opposite Hotel Land Mark). Phone: (+91) (361) 248 8498. • **Hyderabad:** Ashoka Raghupati Chambers, No 1-10-60 to 64, 4th Floor, S P Road, Begumpet, Hyderabad, Telangana 500 016, India. Phone: (+91) (40) 4400 4000. Fax: (+91) (40) 4400 4001. • **Indore:** Office No 502, Maloo-01 26/C, Scheme No 94/C Ring Road, Indore - 452 010. Phone: (+91) (731) 4001211/4001311. • **Jaipur:** A-18, First Floor, Main Sahakar Path, Near Sahakar Bhavan, Jaipur Phone: (+91) (141) 331 3000. Fax: (+91) (141) 512 4899. • **Kochi:** Prestige TMS Square, 9th Floor, No. 2, Service Road, Padivattom, Edappally, Kochi, Kerala - 682024. Phone: (+91) (484) 449 9000. Fax: (+91) (484) 449 9190. • **Kolkata:** Eco Centre Business Tower, 11th Floor, Unit No: 1 B 2, Plot No 4, EM Block, Sector V, Salt Lake, Bidhannagar, Kolkata - 700 091. Phone: (+91) (33) 4081 5400. • **Lucknow:** 177/4, Faizabad Road, Near IT Metro Station, Lucknow - 226 007. Phone: (+91) (522) 403 4000. Fax: (+91) (522) 403 4004. • **Ludhiana:** 5th Floor, Sandhu Tower - II Gurudev Nagar, Ferozpur Road, Ludhiana - 141 001 (Punjab). Phone: (+91) (161) 506 4000. • **Mumbai:** Blue Star House, 3A, Ghatkopar, Link Road, Sakinaka, Mumbai - 400 072. Phone: (+91) (22) 6868 4000. Fax: (+91) (22) 6868 4004. • **Nagpur:** 219 Bajaj Nagar, 1st Floor, South Ambazari Road, Nagpur - 440 010. Phone: (+91) (712) 662 4000. Fax: (+91) (712) 662 4002. • **New Delhi:** Elegance Tower, 1st Floor, Jasola District Centre, New Delhi - 110 025. Phone: (+91) (11) 4149 4000. Fax: (+91) (11) 4149 4004/5. • **Patna:** The Hub, 2nd Floor, Near Regent Cinema, Gandhi Maidan Road, Patna - 800004. • **Pune:** 201/A, Nityanand Complex, 247/A Bund Garden Road, Pune - 411 001. Phone: (+91) (20) 4104 4000/2616 7230. Fax: (+91) (20) 4104 4001/2616 1342. **Raipur:** MM Silver Plaza, Office No. 103, 1st Floor, Opp Udyog Bhavan, Ring Road No. 1, Raipur - 492 001. Phone: (+91) (771) 428 0900. • **Thiruvananthapuram:** TC IV/862, Chandrika, Sree Chitra Nagar, Pipe Line Road, Kowdiar, Thiruvananthapuram - 695 003. Phone: (+91) (471) 243 5025. Fax: (+91) (471) 243 4085. • **Vadodara:** INCUSPAZE Office Spaces, 3rd Floor Alembic 1965, Alembic City, Gorwa-Alembic Road, Vadodara - 390 003. Phone: (+91) (265) 661 4000/265 233 2021/22. Fax: (+91) 265 233 7516. • **Vijayawada:** No 40-1-62, Nagas Hafeez Plaza, Opposite to Grand Modern Supermarket, Near BENZ Circle, MG. Road, Vijayawada - 520 010. Phone: (+91) (866) 248 4004. Fax: (+91) (866) 248 4003. • **Visakhapatnam:** Qubexpro Business Centre, V Mall, Lifestyle Building, 4th Floor, Facor Layout, Waltair Uplands, Visakhapatnam - 530003. Phone: (+91) (0891) 6696705



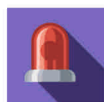
-86°C Ultra low Temperature Freezers

Blue Star's ultra low temperature freezers ensure fast cooling with low noise operation. Their highly efficient thermal insulation retains the set temperature for longer hours and hence reduces power consumption. These freezers are suitable for viruses, pathogens, blood cells, skin banks, stem cells and other biological sample in scientific & medical applications and low temperature experiments.



CONTROL SYSTEM

- Digital microprocessor-based
- Android control touch screen (digital controller in 100 & 218 ltr)
- Platinum resistor sensors
- Door with hot gas pipe surrounding for defrost
- Large display for better view
- Battery-powered
- Controller have password protection



SAFETY ALARM SYSTEM

- High/Low temperature
- High ambient temperature
- Sensor error
- Door ajar
- Low battery
- Power failure
- Remote alarm
- USB datalog failure
- Condenser overheating
- Main board communication error



REFRIGERATION SYSTEM

- High-efficiency compressor and EBM fan
- Manual defrost
- Direct cooling system
- Insulated foamed door with seal
- CFC-free refrigerant
- High-efficiency air-cooled condenser
- Coil evaporator



STRUCTURE DESIGN

- External high quality structure
- Vacuum release port (Not in 100L)
- Built-in USB datalogger
- High-performance Vacuum Insulation Panel (VIP)
- Low noise design
- Standard access port



Technical Specifications:

Model	DW-HL100	DW-HL218	DW-HL398SA	DW-HL528SA	DW-HL678SA	DW-HL778SA	DW-HL1008SA
Performance & Control							
Capacity (L)	100L	218L	398L	528L	678L	778L	1008L
Temperature set (°C)	-40 ~ -86°C	-40 ~ -86°C	-40 ~ -86°C	-40 ~ -86°C	-40 ~ -86°C	-40 ~ -86°C	-40 ~ -86°C
Temperature control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Temperature display	Digital	Digital	Touch screen	Touch screen	Touch screen	Touch screen	Touch screen
Temperature increment	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Nos. of Compressor	1	1	2	2	2	2	2
Dimensions							
Internal size (W*D*H) mm	450*450*514	470*580*767	440*696*1266	585*696*1266	750*696*1286	865*696*1286	1022*696*1378
External size (W*D*H) mm	1066*742*820	840*985*1568	785*1041*1947	930*1041*1947	1090*1025*1955	1205*1025*1955	1362*1025*2002
Packing Dimensions (W*D*H) mm	1165*810*970	940*1026*1630	890*1165*2158	1035*1165*2158	1203*1155*2171	1320*1155*2171	1473*1155*2176
NW (KG)	145	218	237	286	330	365	430
GW (KG)	227	235	319	357	435	455	550
Materials							
Exterior Material	Spray cold rolled steel plate	Spray cold rolled steel plate	High-quality sprayed steel plates	High-quality sprayed steel plates	High-quality sprayed steel plates	High-quality sprayed steel plates	High-quality sprayed steel plates
Interior Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shelve Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shelve height adjustable	YES	YES	YES	YES	YES	YES	YES
Nos. of Shelve	1	1	3	3	3	3	3
Shelve size (mm)	440*444	457*555	429*659	572*659	732*659	847*659	1009*659
Accessories							
Door lock	✓	✓	✓	✓	✓	✓	✓
Padlock	✓	✓	✓	✓	✓	✓	✓
Caster Quantity	4	4	4	4	4	4	4
Brake Quantity	x	x	x	x	x	x	x
Foot Quantity	x	x	2	2	2	2	2
Test hole nos./diameter	1/25mm	1/40mm	2/25mm	2/25mm	3/25mm	3/25mm	3/25mm
USB Interface	✓	✓	✓	✓	✓	✓	✓
RS485	✓	✓	✓	✓	✓	✓	✓
Remote Alarm	✓	✓	✓	✓	✓	✓	✓
Printer	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Chart Recorder	x	Optional	Optional	Optional	Optional	Optional	Optional
Bluetooth printer	x	x	Optional	Optional	Optional	Optional	Optional
Swipe card	x	x	Optional	Optional	Optional	Optional	Optional
Fingerprint	x	x	Optional	Optional	Optional	Optional	Optional
Facial recognition	x	x	Optional	Optional	Optional	Optional	Optional
21CFR	x	x	Optional	Optional	Optional	Optional	Optional