





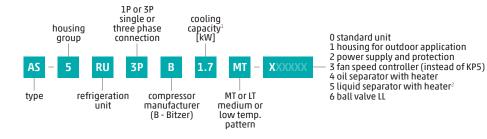
ARCTIC AS INDUSTRIAL REFRIGERATION UNITS

- Ideal solution for large-scale refrigeration systems in various industries
- Suitable for industrial facilities
- Equipped with semi-hermetic compressors for enhanced serviceability and reliability
- Anti-corrosion construction ensures reliable operation in all climatic conditions
- Optimized components ensure high energy efficiency and operational performance
- Flexible installation with floor stands or wall mounting brackets for simplified on-site setup

TABLE WITH OPTIONS

OPTION	EQUIPMENT	NOTE
BASIC	 semi-hermetic compressor with oil crankcase heater air-cooled condenser with fan liquid receiver safety valve filter-drier with sight glass adjustable high/low pressure switch of the compressor pressostatic regulation of condensation pressure anti-vibration pipes on the suction and pressure pipelines 	 when choosing the cooling unit in addition to its name please also specify the number of the option e.g. unit AS - 5RU3PB1.7MT - 0; with standard units e.g. unit AS - 5RU3PB1.7MT - 12; with housing for outdoor application, power supply and protection
OPTIONS	EQUIPMENT	NOTE
OPTION 1	 housing for outdoor application 	
OPTION 2	 power supply and protection - compressor switch, el. heater, condenser fans, main switch 	
OPTION 3	 fan speed controller Danfoss XGE 	• the fan speed controller (RBO) serves to regulate the condenser pressure, therefore, when selecting option 5, the adjustable pressure switch, which standardly controls the condensing pressure, is omitted from the standard equipment
OPTION 4	• oil separator with heater	 inspection glass on the oil return is installed only on units of design groups 6, 7 and 8
OPTION 5	• liquid separator with heater	 liquid separator installed only on units pertaining to housing group 8
OPTION 6	• ball valve LL	• ball valve on the liquid pipe

NOMENCLATURE

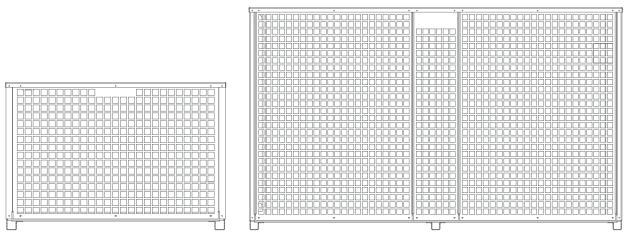


1 Under conditions: • MT Te/Ta = -10°C/+32°C • LT Te/Ta = -30°C/+32°C

superheat 10K
 subcooling 2K

REFRIGERATION UNITS

REFRIGERATION UNIT OUTSIDE THE COLD ROOM



• design groups 5, 6 and 7

• design group 8

STANDARD UNIT

- semi-hermetic compressor with oil crankcase heater
- air-cooled condenser with fan
- liquid receiver
- safety valve
- filter-drier with sight glass
- adjustable high/low pressure switch of the compressor
- pressostatic regulation of condensation pressure
- anti-vibration pipes on the suction and pressure pipelines

FEATURES

short delivery terms

- simple installation
- anti-corrosion protection

refrigerant with low GWP (GWP = 1397), R449A

ASSEMBLY ACCESSORIES

floor stands

mounting brackets

ACCESSORIES

housing for outdoor application power supply and protection fan speed controller oil separator with heater liquid separator with heater² ball valve with heater



COOLING CAPACITY

	Condensing unit						
Refrigeration unit		Cooling capacity [kW]	Connections				
MT MODEL	Compressor	Te/Ta	مدا	ØLL			
		-10°C/+32°C	ØSL	ULL			
AS-SRU3PB1.7MT	2KES-05Y	1,7	16	10			
AS-6RU3PB2.3MT	2JES-07Y	2,3	16	10			
AS-6RU3PB2.9MT	2HES-2Y	2,9	16	10			
AS-6RU3PB3.4MT	2GES-2Y	3,4	16	10			
AS-7RU3PB4.4MT	2FES-3Y	4,4	16	10			
AS-7RU3PB5.4MT	2EES-3Y	5,4	22	10			
AS-7RU3PB6.3MT	2DES-3Y	6,3	22	12			
AS-7RU3PB8.1MT	2CES-4Y	8,1	22	12			
AS-8RU3PB8.8MT	4FES-5Y	8,8	22	12			
AS-8RU3PB11.1MT	4EES-6Y	11,1	28	16			
AS-8RU3PB12.6MT	4DES-7Y	12,6	28	16			

	Condensing unit					
Refrigeration unit		Cooling capacity [kW]	Connections			
LT MODEL	Compressor	Te/Ta	øSL	øLL		
		-30°C/+32°C	JSC	ULL		
AS-5RU3PB0.9LT	2HES-1Y	0,9	16	10		
AS-5RU3PB1.0LT	2GES-2Y	1	16	10		
AS-5RU3PB1.3LT	2FES-2Y	1,3	16	10		
AS-6RU3PB1.7LT	2EES-2Y	1,7	22	10		
AS-6RU3PB2.0LT	2DES-2Y	2	22	10		
AS-6RU3PB2.7LT	2CES-3Y	2,7	22	10		
AS-7RU3PB2.9LT	4FES-3Y	2,9	22	10		
AS-7RU3PB3.6LT	4EES-4Y	3,6	28	10		
AS-7RU3PB4.1LT	4DES-5Y	4,1	28	10		
AS-7RU3PB5.4LT	4CES-6Y	5,4	28	10		
AS-8RU3PB6.5LT	4TES-9Y	6,5	35	12		
AS-8RU3PB6.9LT	4PES-12Y	6,9	35	12		
AS-8RU3PB8.8LT	4NES-14Y	8,8	35	12		

POWER SUPPLY

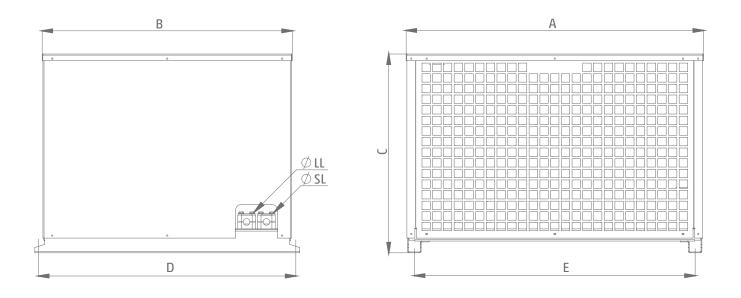
	Condensing unit					
Refrigeration unit MT MODEL	Compressor	Power supply	lmax [A]	Pmax [kW]		
AS - SRU3PB1.7MT	2KES-05Y	400 V/3~/50 Hz	3,1	1,6		
AS - 6RU3PB2.3MT	2JES-07Y	400 V/3~/50 Hz	4,1	2		
AS - 6RU3PB2.9MT	2HES-2Y	400 V/3~/50 Hz	4,9	2,5		
AS - 6RU3PB3.4MT	2GES-2Y	400 V/3~/50 Hz	5,7	2,9		
AS- 7RU3PB4.4MT	2FES-3Y	400 V/3~/50 Hz	6,7	3,5		
AS - 7RU3PB5.4MT	2EES-3Y	400 V/3~/50 Hz	8,1	3,9		
AS-7RU3PB6.3MT	2DES-3Y	400 V/3~/50 Hz	10,2	5		
AS - 7RU3PB8.1MT	2CES-4Y	400 V/3~/50 Hz	11,6	6		
AS- 8RU3PB8.8MT	4FES-5Y	400 V/3~/50 Hz	11,9	6,1		
AS - 8RU3PB11.1MT	4EES-6Y	400 V/3~/50 Hz	14,7	7,9		
AS - 8RU3PB12.6MT	4DES-7Y	400 V/3~/50 Hz	17,6	9,2		

Condensing unit						
Comprosect	Deversely	Imax	Pmax			
compressor	Power supply	[A]	[kW]			
2HES-1Y	400 V/3~/50 Hz	4,1	2,1			
2GES-2Y	400 V/3~/50 Hz	5,3	2,8			
2FES-2Y	400 V/3~/50 Hz	5,6	3			
2EES-2Y	400 V/3~/50 Hz	6,4	3,4			
2DES-2Y	400 V/3~/50 Hz	7,9	4,1			
2CES-3Y	400 V/3~/50 Hz	9,8	5,2			
4FES-3Y	400 V/3~/50 Hz	10,2	5,5			
4EES-4Y	400 V/3~/50 Hz	12,8	7			
4DES-5Y	400 V/3~/50 Hz	15,1	8,2			
4CES-6Y	400 V/3~/50 Hz	19,3	10,1			
4TES-9Y	400 V/3~/50 Hz	21,5	13,4			
4PES-12Y	400 V/3~/50 Hz	23,8	14,3			
4NES-14Y	400 V/3~/50 Hz	29,7	17,7			
	2GES-2Y 2FES-2Y 2EES-2Y 2DES-2Y 2CES-3Y 4FES-3Y 4EES-4Y 4DES-5Y 4CES-6Y 4TES-9Y 4PES-12Y	Compressor Power supply 2HES-1Y 400 V/3~/50 Hz 2GES-2Y 400 V/3~/50 Hz 2FES-2Y 400 V/3~/50 Hz 2EES-2Y 400 V/3~/50 Hz 2EES-2Y 400 V/3~/50 Hz 2DES-2Y 400 V/3~/50 Hz 2CES-3Y 400 V/3~/50 Hz 4FES-3Y 400 V/3~/50 Hz 4EES-4Y 400 V/3~/50 Hz 4DES-5Y 400 V/3~/50 Hz 4CES-6Y 400 V/3~/50 Hz 4TES-9Y 400 V/3~/50 Hz 4PES-12Y 400 V/3~/50 Hz	Compressor Power supply Imax 2HES-1Y 400 V/3~/50 Hz 4,1 2GES-2Y 400 V/3~/50 Hz 5,3 2FES-2Y 400 V/3~/50 Hz 5,6 2EES-2Y 400 V/3~/50 Hz 5,6 2EES-2Y 400 V/3~/50 Hz 6,4 2DES-2Y 400 V/3~/50 Hz 7,9 2CES-3Y 400 V/3~/50 Hz 9,8 4FES-3Y 400 V/3~/50 Hz 10,2 4EES-4Y 400 V/3~/50 Hz 12,8 4DES-5Y 400 V/3~/50 Hz 15,1 4CES-6Y 400 V/3~/50 Hz 19,3 4TES-9Y 400 V/3~/50 Hz 21,5 4PES-12Y 400 V/3~/50 Hz 23,8			

Under conditions: • superheat 10K • subcooling 2K



CONDENSING UNIT - DESIGN GROUPS 5, 6 AND 7



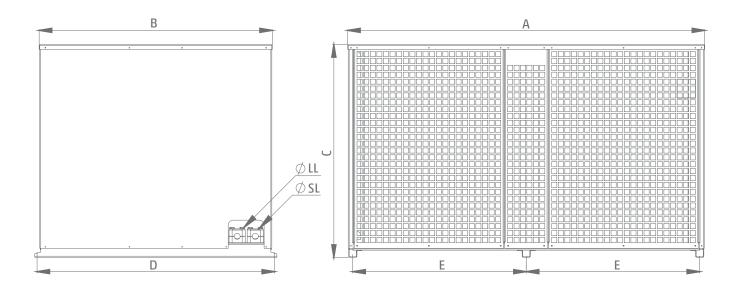
Refrigeration unit	DIMENSIONS (mm)					
MT MODEL	A	В	C	D	E	WEIGHT ⁴ (kg)
AS - SRU3PB1.7MT	707,5	595	473	612	668	105
AS - 6RU3PB2.3MT	807,5	705	573	722	768	115
AS - 6RU3PB2.9MT	807,5	705	573	722	768	117
AS - 6RU3PB3.4MT	807,5	705	573	722	768	117
AS - 7RU3PB4.4MT	1001,5	865	673	882	962	143
AS - 7RU3PB5.4MT	1001,5	865	673	882	962	176
AS - 7RU3PB6.3MT	1001,5	865	673	882	962	176
AS - 7RU3PB8.1MT	1001,5	865	673	882	962	185

Refrigeration unit	DIMENSIONS (mm)					
LT MODEL	А	В	С	D	E	WEIGHT ⁴ (kg)
AS - SRU3PB0.9LT	707,5	595	473	612	668	106
AS - SRU3PB1.0LT	707,5	595	473	612	668	106
AS - SRU3PB1.3LT	707,5	595	473	612	668	107
AS - 6RU3PB1.7LT	807,5	705	573	722	768	140
AS - 6RU3PB2.0LT	807,5	705	573	722	768	140
AS - 6RU3PB2.7LT	807,5	705	573	722	768	143
AS - 7RU3PB2.9LT	1001,5	865	673	882	962	180
AS - 7RU3PB3.6LT	1001,5	865	673	882	962	180
AS - 7RU3PB4.1LT	1001,5	865	673	882	962	180
AS - 7RU3PB5.4LT	1001,5	865	673	882	962	185

4 Units weights include housing for outdoor application, power supply and protection. Weights are approximate and are subject to change.

ARCTIC AS

REFRIGERATION UNIT



Refrigeration unit	DIMENSIONS (mm)					
MT MODEL	А	В	C	D	E	WEIGHT ⁴ (kg)
AS - 8RU3PB8.8MT	1390,5	908	828	925	676	281
AS - 8RU3PB11.1MT	1390,5	908	828	925	676	281
AS - 8RU3PB12.6MT	1390,5	908	828	925	676	284

Refrigeration unit		WEIGHT ⁴ (kg)				
LT MODEL	Α	В	С	D	E	WEIGHT (Kg)
AS - 8RU3PB6.5LT	1390,5	908	828	925	676	329
AS - 8RU3PB6.9LT	1390,5	908	828	925	676	334
AS - 8RU3PB8.8LT	1390,5	908	828	925	676	336

4 Units weights include housing for outdoor application, power supply and protection. Weights are approximate and are subject to change.

