

The company's management team relies all of its services, including planning, marketing, and effective product sales, on the use of cutting-edge equipment and staff training that follows a modern system. The company has received CE European standard certification in the production of cold room and ducted split systems, as well as ISO 9001-2015 management standard certification and quality certificates from Danfoss and Copeland Companies in the production of condensing units





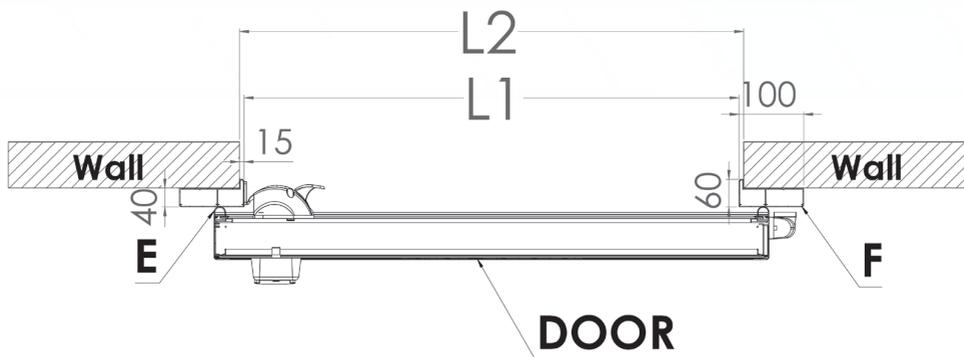
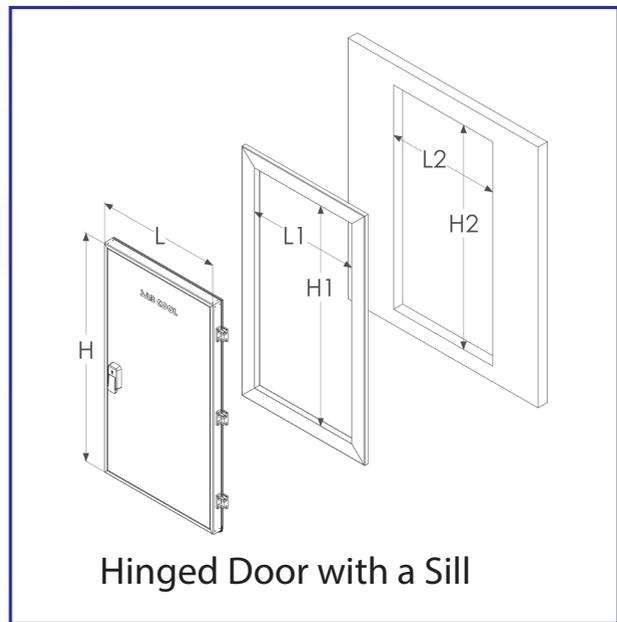
Hinged
Door

Hinged Door with a Sill							Model	
Wall Opening Size		Clear Opening Size		Door Size				
H2 (Cm)	L2 (Cm)	H1 (Cm)	L1 (Cm)	H (Cm)	L (Cm)			
177	77	174	74	180	80	HSP 1880	7 Cm	
187	87	184	84	190	90	HSP 1990		
197	103	194	100	200	106	HSP 2011		
217	127	214	124	220	130	HSP 2213		
177	77	174	74	180	80	HTP 1880	10 Cm	
187	87	184	84	190	90	HTP 1990		
197	103	194	100	200	106	HTP 2011		
217	127	214	124	220	130	HTP 2213		
180	80	177	77	190	90	HFP 1990	15 Cm	
190	90	187	87	200	100	HFP 2010		
210	110	207	107	220	120	HFP 2212		

Hinged Door with a Sill							Model	
Wall Opening Size		Clear Opening Size		Door Size				
H2 (Cm)	L2 (Cm)	H1 (Cm)	L1 (Cm)	H (Cm)	L (Cm)			
180	77	178	74	180	80	HSW 1880	7 Cm	
190	87	188	84	190	90	HSW 1990		
200	103	198	100	200	106	HSW 2011		
220	127	218	124	220	130	HSW 2213		
180	77	178	74	180	80	HTW 1880	10 Cm	
190	87	188	84	190	90	HTW 1990		
200	103	198	100	200	106	HTW 2011		
220	127	218	124	220	130	HTW 2213		
187	80	185	77	190	90	HFW 1990	15 Cm	
197	90	195	87	200	100	HFW 2010		
217	110	215	107	220	120	HFW 2212		

Hinged Door

E	Elastic Rubber Strips
W	Wall
F	Frame
L	Door Length
H	Door Height
L1	Clear Opening Length
H1	Clear Opening Height
L2	Wall Opening
H2	Wall Opening Height



Hinged Door

Hinged Door Specifications

- » Door thickness in 70, 100 and 150 mm
- » Offered in two models: with and without a sill
- » Polyurethane foam insulation with a density of 40 ± 1 (kg/m³)
- » Doors are covered with pre-painted coated galvanized sheets (cellophane) in white, red, yellow, and blue, as well as stainless steel sheets
- » Features a two-component gasket that does not change physically
- » Gasket corner in gasket joints (miter omitted)
- » UPVC frame reinforced with the following qualities: cold insulation, strength and durability, anti-corrosion and UV aging resistance
- » Fittings made of stainless steel and fibrous polyamide
- » Unique lock accessible from within a cold room
- » Sight glass option
- » Anodized aluminum frame
- » Heating element option
- » 18-month warranty starting from the delivery date
- » PVC curtain option to prevent cold loss
- » Cold-room door guard option to prevent door shock



Internal hinged lock



External hinged lock



Hinged door with a sill



Hinged door without a sill

SAB COOL

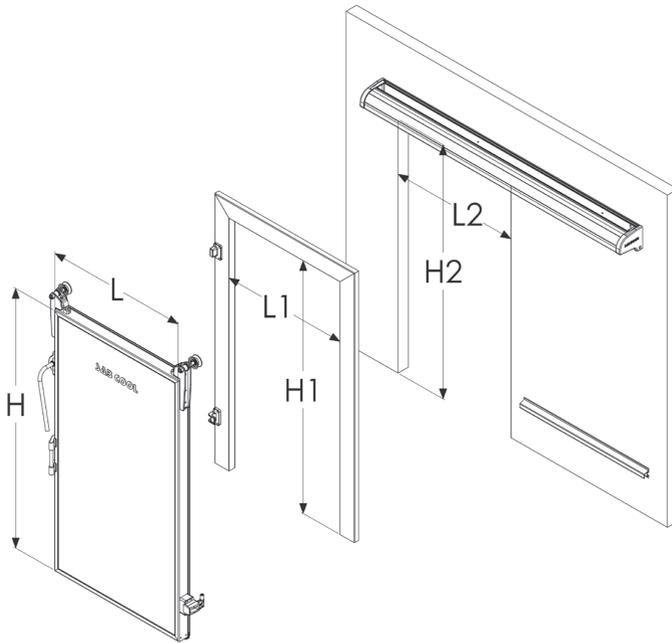
SAB COOL

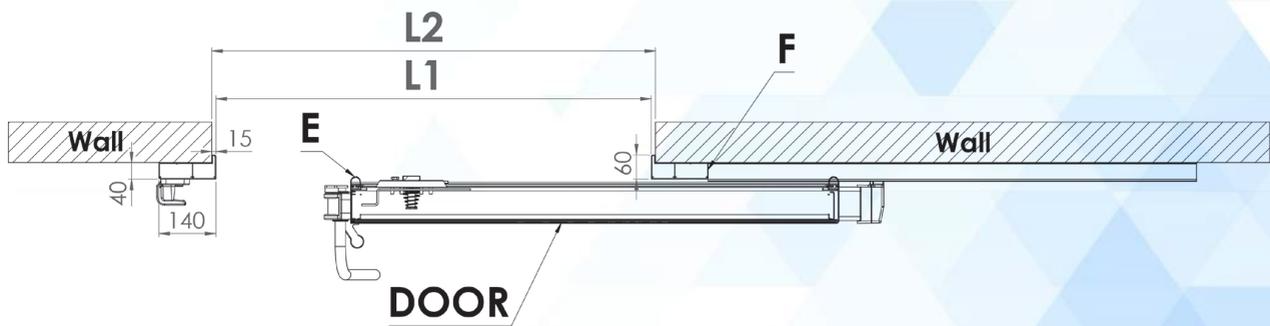
COLD ROOM
5

SAB COOL

Sliding door

Sliding Door





E	Elastic Rubber Strips
W	Wall
F	Frame
L	Door Length
H	Door Height
L1	Clear Opening Length
H1	Clear Opening Height
L2	Wall Opening Length
H2	Wall Opening Height

Door mode		Sliding door models (10 and 15 cm thickness)															
		Door height (cm) Hinged Door with a Sill															
		210	220	230	240	250	260	270	290	300	310	320	330	360	380	410	
Door width (cm)	110	200*106	210*106	220*106													
	120		210*120	220*120													
	130	200*130	210*130	220*130	230*130	240*130											
	140		207*140	223*140	233*140	240*140	249*140										
	150		207*140	223*150	233*150	240*150	249*150	256*150									
	160		207*160	223*160	233*160	240*160	249*160	256*160	270*160								
	170		207*170	223*170	233*170	240*170	249*170	256*170	270*170								
	180		207*180	223*180	233*180	240*180	249*180	256*180	270*180								
	190		207*190	223*190		240*190	249*190	256*190	270*190	290*190							
	200		207*200			240*200	249*200	256*200	270*200	290*200	298*200	308*200					
	210		207*210			240*210	249*210	256*210	270*210	290*210	298*210	308*210	319*210				
	220					240*220	249*220	256*220	270*220	290*220	298*220	308*220	319*220	332*220			
	230					240*230	249*230	256*230	270*230	290*230	298*230	308*230	319*230	329*230	357*230		
	240					240*240	249*240	256*240	270*240	290*240	298*240	308*240	319*240	332*240	357*240	382*240	
	250						249*250	256*250	270*250	290*250	298*250	308*250	319*250	332*250	357*250	382*250	409*250
	260							256*260	270*260	290*260	298*260	308*260	319*260	332*260	357*260	382*260	409*260
	270								270*270	290*270	298*270	308*270	319*270	332*270	357*270	382*270	409*270
	280									290*280	298*280	308*280	319*280	332*280	357*280	382*280	409*280

درهای با ابعاد مندرج در سلول های با پس زمینه ی آبی، تحویل فوری می باشند.

How to measure 15cm sliding door size (SF)

- H1= H-7cm 7cm – door height = clear opening height
 L1= L-14cm 14cm – door width = clear opening width
 H2= H-5cm 5cm – door height = wall opening length
 L2= L-14cm 14cm – door height = clear opening height

How to measure 10cm sliding door size (ST)

- H1= H-7cm 7cm – door height = clear opening height
 H1= H-14cm 14cm – door width = clear opening width
 H2= H-5cm 5cm – door height = wall opening length
 H2= H-11cm 11cm – door height = clear opening height



Sliding door

Sliding door specifications

- » Comes in 100 and 150 mm
- » Polyurethane foam insulation with a density of 40 ± 1 (kg/m³)
- » Doors are covered with pre-painted coated galvanized sheets (cellophane) in white, red, yellow, and blue, as well as stainless steel sheets
- » Features a two-component gasket that does not change physically
Gasket corner in gasket joints (miter omitted)
- » UPVC frame reinforced with the following qualities: cold insulation, strength and durability, anti-corrosion and UV aging resistance
- » Fittings made of stainless steel and fibrous polyamide
- » Unique lock accessible from within a cold room
- » Sight glass option
- » 18-month warranty starting from the delivery date
- » Anodized aluminum frame
- » Door railing with PVC cover
- » Heating element option
- » PVC curtain option to prevent cold loss
- » Guard option
- » Auto door option installed on sliding door
- » Unique conveyor design in abattoirs

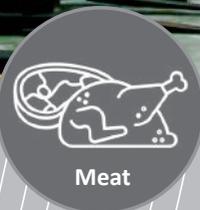
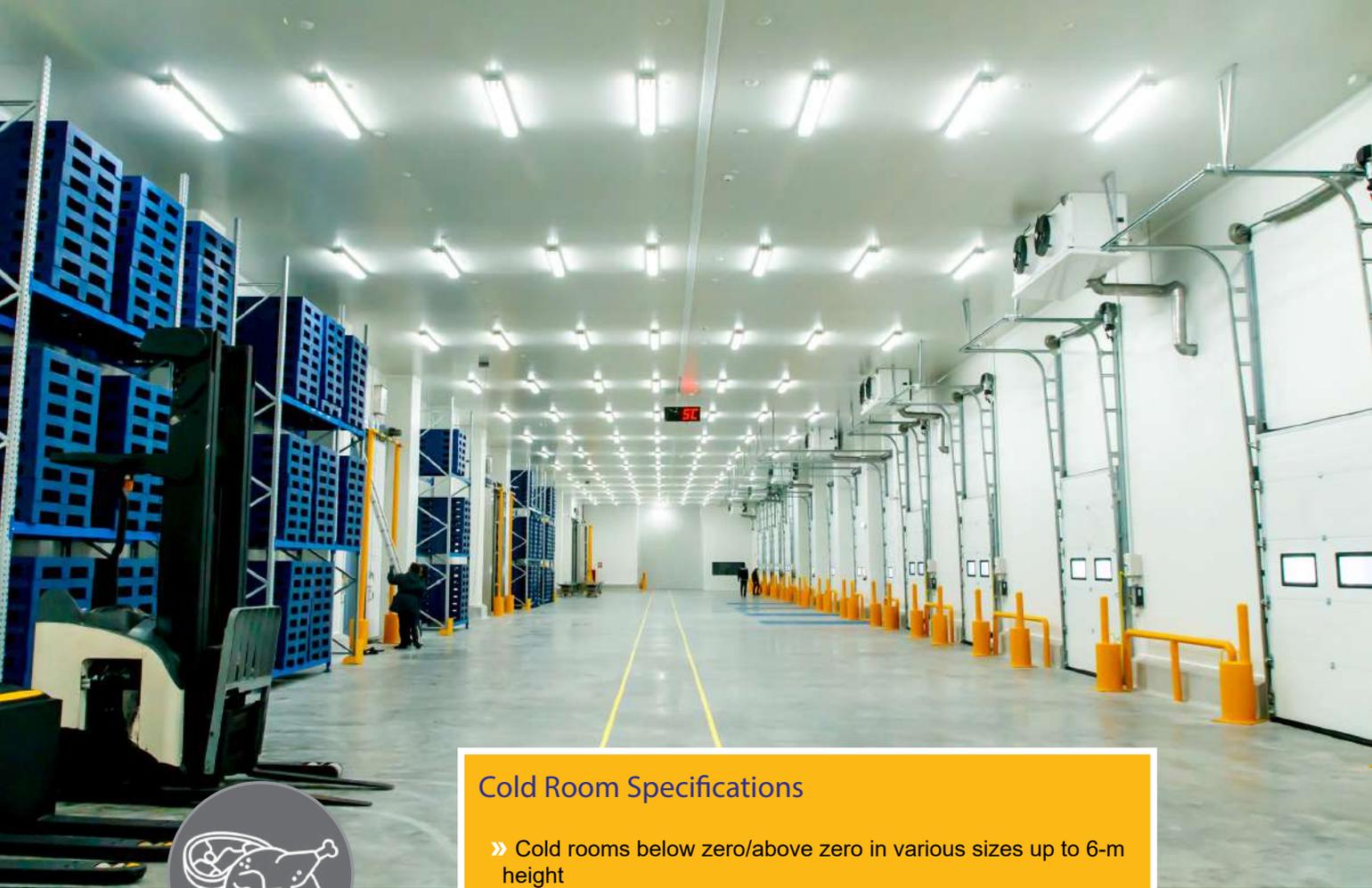
Sliding Door



Cold Room

Cold Room



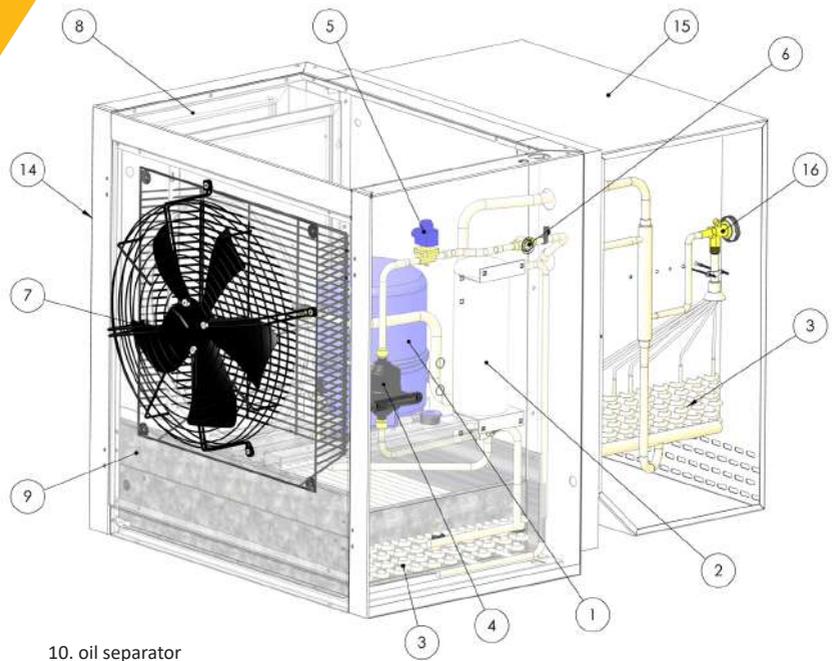


Cold Room Specifications

- » Cold rooms below zero/above zero in various sizes up to 6-m height
- » Appropriate for different types of weather
- » Fast assembly/disassembly
- » Easy and quick installation
- » Reinforced UPVC frame
- » Production option of galvanized and stainless steel sheets
- » 80,100,and150mm thickness with a density of $40\pm 1(\text{kg}/\text{m}^3)$
- » Production option of mono block/split block (below zero/above zero)
- » Pre-painted galvanized sheets coated with cellophane
- » No need for a chassis and structure
- » Floor panel reinforced with an embossed galvanized sheet
- » Comes with installation accessories, supplementary pieces and fittings
- » Hinged or sliding door (installation at adjustment in factory)
- » Produced based on customized configurations chosen by customers



Mono Block

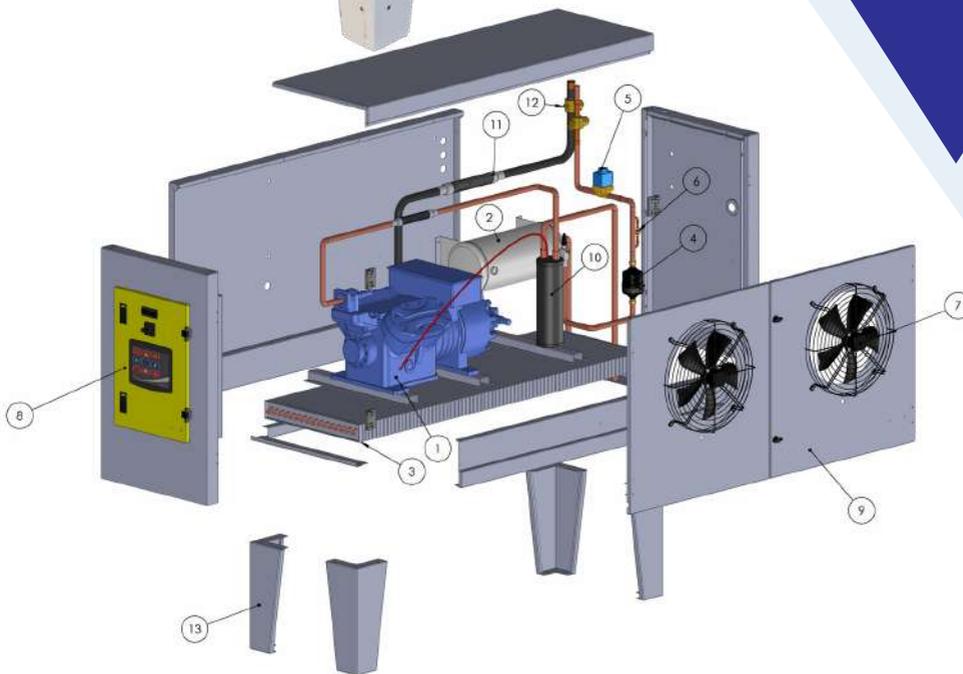


- 1. compressor
- 2. receiver
- 3. coil
- 4. filter drier
- 5. solenoid valve
- 6. sight glass
- 7. fan
- 8. electrical panel
- 9. door
- 10. oil separator
- 11. vibration absorber
- 12. ball valve
- 13. chassis
- 14. condensing unit
- 15. evaporator
- 16. expansion valve
- 17. liquid accumulator

Mono Block



Split Block



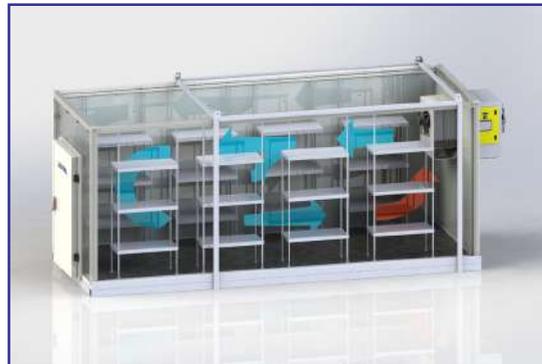
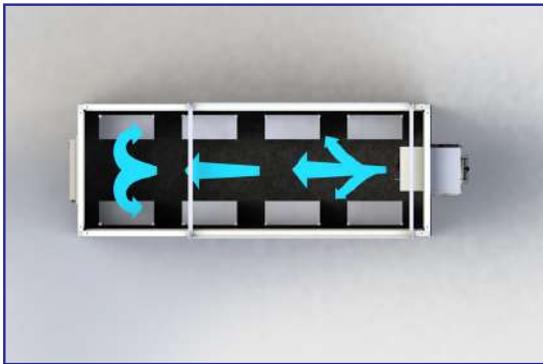
Mono block/split block specifications

- » Integrated refrigeration system featuring a compressor, condenser, panel board, and liquid line
- » Come in 40 various designs with 9-97 kW capacity for below zero/above zero systems
- » Installable on cold rooms and cold Conex boxes as integrated (mono block) and split (split block)
- » Features IP54-rated panel boards, a digital controller, and plannable functionality
- » Easy installation and fast operation
- » Features Axial fans equipped with internal overload
- » Compatible with refrigerants including 



Portable cold room

CONEX



Model	Portable Cold Room									
	Cold Room Size				Above Zero Refrigeration System (Mono Block)			Below Zero Refrigeration System (Mono Block)		
	Clear Volume (M3)	Length	Width	Height	Operator Capacity	Moderate Condenser Capacity	Tropical Condenser Capacity	Operator Capacity	Moderate Condenser Capacity	Tropical Condenser Capacity
4-m	20	4	2.5	2.5	5 kw	9 kw	11 kw	5 kw	9 kw	11 kw
5-m	25	5	2.5	2.5	5 kw	9 kw	11 kw	5 kw	9 kw	11 kw
6-m	30	6	2.5	2.5	5 kw	9 kw	11 kw	5 kw	9 kw	11 kw
7-m	36	7	2.5	2.5	5 kw	9 kw	11 kw	5 kw	9 kw	11 kw
8-m	41	8	2.5	2.5	5 kw	9 kw	11 kw	5 kw	9 kw	11 kw



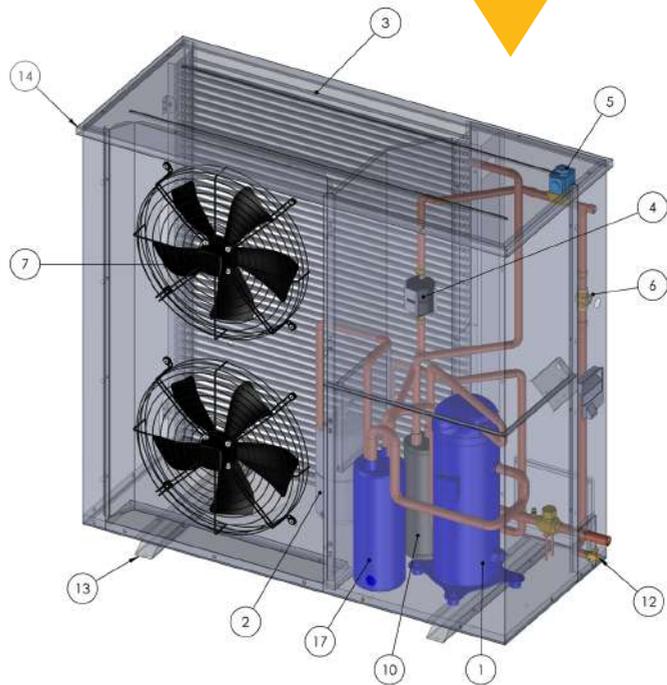
Portable Cold Room Specifications

- » Above zero and below zero cold rooms in standard sizes for road transportation
- » Portable with forklift and crane
- » Suitable for a variety of weathers
- » Strong chassis made of galvanized sheet
- » 20-41m³ capacity
- » Unique refrigeration system
- » Shelving option
- » Highly resistant to environmental corrosion and rust
- » Operable both indoors and outdoors
- » Production option for hinged and sliding doors
- » PVC curtain option to prevent cold loss

Slim Pack



Slim Pack



- | | |
|---------------------|------------------------|
| 1. compressor | 10. oil separator |
| 2. receiver | 11. vibration absorber |
| 3. coil | 12. ball valve |
| 4. filter drier | 13. chassis |
| 5. solenoid valve | 14. condensing unit |
| 6. sight glass | 15. evaporator |
| 7. fan | 16. expansion valve |
| 8. electrical panel | 17. liquid accumulator |
| 9. door | |



Condenser

Row	2	2	3	1.5	2	3	4	2	3	4
Fpi	12	12	12	12	12	12	12	12	12	12
Pipe (in)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Tube (x)	26	26	26	31	31	31	31	48	48	48
Air Flow (Cfm)	2158	3308	3308	5295	5295	5295	5295	6617	6617	6617
		4960	4960	7942	7942	7942	7942	9925	9925	9925
Fan	1*40	1*50	1*50	1*60	1*60	1*60	1*60	2*50	2*50	2*50
Ent.Air (°F)	86	86	86	86	86	86	86	86	86	86
Cond.Temp (°F)	113	113	113	113	113	113	113	113	113	113
Capacity (kw)	7.4	12.4	17.5	14	19	25.8	28	30	37	43
		16.3	23.66	17.3	23.65	33	39.5	35.1	48	57
	D=500mm--900rpm			D=600mm--900rpm				D=500mm--900rpm		
	D=500mm--1600rpm			D=600mm--900rpm				D=500mm--1600rpm		

Portable Cold Room Specifications

- » Designed for above zero and below zero conditions operable in cold rooms and store fridges
- » Comes in 20 various designs with 7-57 kW condenser capacity
- » Features 3.8-inch copper pipes in condenser
- » Features Axial fans equipped with internal overload
- » Production option for blue and gold epoxy aluminum fins with an advanced patterned surface
- » Compatible with refrigerants including
- » Installation option of scroll and piston compressors
- » Installable in limited spaces and places



Flake Ice Maker

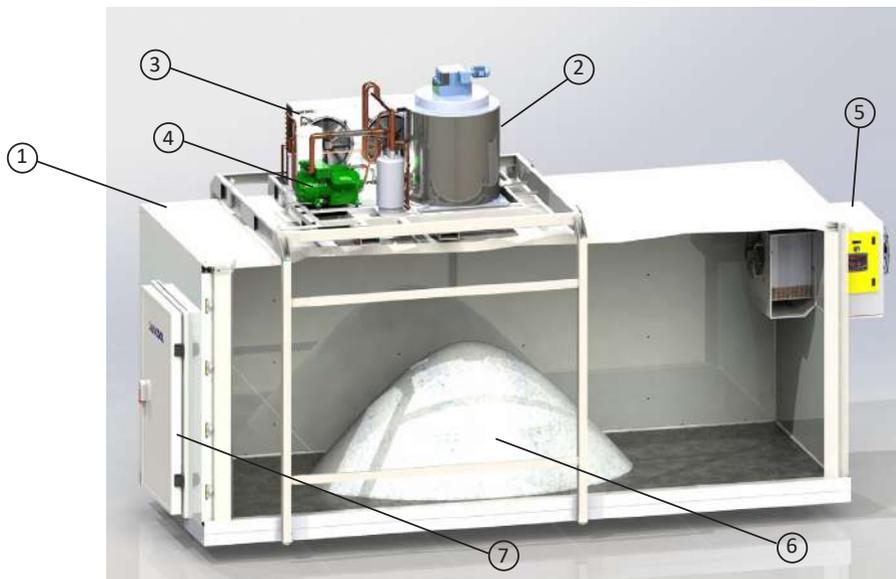


Flake Ice Maker



- » Operable in concrete projects, fisheries and aquatic industries, supermarket chains (hypermarkets), meat processing industries, chicken abattoirs and sausage and salami factories, pharmaceutical industries and chemical processes, paint chemical industries, artificial ski slopes, mine temperature reduction, bread and bakery industry, and frozen food maintenance
- » Forms dry and hygienic ice pieces, detached piece of ice, high exchange ratio, no sharp or pointy edges to avoid damaging fragile objects
- » Equipped with the latest ice maker technology, a fixed drum, and a moving blade
- » Equipped with technology of manufacturing a stainless-steel drum
- » Unique design, high efficiency, and energy-saving options
- » Comes with a water pump and a salter pump for further efficiency

Model	Capacity (24h) (Kg)	Compressor (HP)	Condenser (KW)	Evaporating temp (°C)	Reducer Power (KW)	circulating pump power (KW)	Water pipe	Over flow pipe	Dimension (mm) ابعاد	
									∅	H
F10S	1000	4	11	-20	0.18	0.25	1/2"	1/2"	478	795
F20S	2000	10	26	-20	0.37	0.03	1/2"	1/2"	650	969
F30S	3000	20	37	-20	0.37	0.37	1/2"	1/2"	650	1084
F50S	5000	25	70	-22	0.55	0.03	1/2"	3/4"	920	1331
F100S	10000	40	100	-25	0.75	0.25	3/4"	3/4"	1160	1840
F150S	15000	80	200	-25	1.1	0.4	2X3/4"	1-1/4"	1462	1984
F200S	20000	120	330	-25	1.1	0.4	2X3/4"	1-1/2"	1600	2862



- | | |
|------------------------|---------------|
| 1. ice cold storage | 5. mono block |
| 2. ice drum evaporator | 6. flake ice |
| 3. condensing unit | 7. door |
| 4. compressor | |

Electrical Panel	Equipment Brand	"S" used in customized panel boards	Compressor Power Limit	Below-zero Systems (L) Above-zero Systems (L) Ice-bank Systems (K)	Contactor Count for Condenser Fans	Contactor Count for Operator Fans
SEP	H (Hyundai)	-	10	L	3	2
	L (LG)					
	S (Schneider)					
DEP	Danfoss					



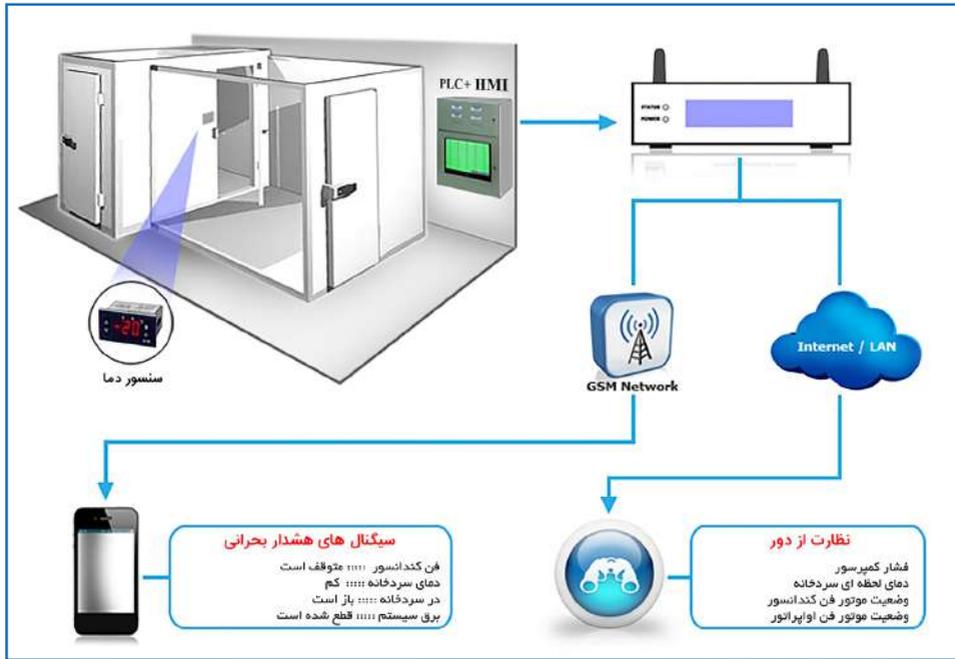
- » Features IP54-rated body with electrostatic paint coating with anti-corrosion and rust-prevention capabilities
- » Single-phase or three-phase panels for below and above zero cold rooms with two or one sensors
- » Comes with a thermal switch, and contactors produced by such brands as Danfoss and Hyundai separately for the compressor, operator fan, condenser fan, and operator heater defrost
- » Customized panel design equipped with single-phase control, phase charge control, timer, etc. based on customer preferences
- » Comes with colored terminals and colored wiring
- » Comes with complete control and power circuit
- » Comes with warning signal pad
- » Comes with digital controllers with IP54-rated protection made by Danfoss
- » Production and design of automated industrial panels with PLC & Drive based on the requirements of ammonia and freon cold rooms and roof top package units and chillers



Electrical panel

- 1-Electrical panel
- 2-Ac inverter
- 3-PLC(Danfoss)
- 4-HMI
- 5-Signal pad
- 6-Thermostat
- 7-Contactor
- 8-Door





PLC-based advanced electrical panels featuring controller for air-conditioning systems, cold room systems, ice makers, and ice banks

- » Operator monitor and control using a human machine interface (HMI)
- » Monitoring and controlling system parameters via Internet or Wi-Fi network
- » Temperature, humidity, and system alarm notifications via text message
- » Data logger option to store temperature, humidity, etc. data





REFRIGERATION CATALOGUE 2022



