

Product Range

Air Conditioning Unit HT(high temp.)

Model	Type of Unit	Design temp. (°C)	Output
MISTRAL HT	Direct expansion on the evaporator/gas cooler/condenser side	+4/+32	10–220 kW
BREEZE HT	Direct expansion on the evaporator side with liquid cooled gas cooler/condenser	+4/+32	10–220 kW
ATLANTIC HT	Liquid chilled unit for air cooled gas cooler/condenser	+4/+32	10–220 kW
PASSAD HT AC	Direct expansion on evaporator side with air cooled gas cooler(AC)	+5 /+35	1,57–5,8 kW
PASSAD HT LC	Direct expansion on evaporator side with liquid cooled gas cooler(LC)	+5/+20	1,97–7,8 kW
SIROCCO HT	Low noise outdoor unit with air cooled gas cooler.	+4/+32	10–135 kW
PACIFIC	Liquid chiller unit with liquid cooled gas cooler/condenser	+4/+32	10–220 kW

Refrigeration Unit MT(medium temp.)

Model	Type of Unit	Design temp. (°C)	Output
MISTRAL MT	Direct expansion on the evaporator/gas cooler/condenser side	-10/+32	6–125 kW
BREEZE MT	Direct expansion on the evaporator side with liquid cooled gas cooler/condenser	-10/+32	6–125 kW
ATLANTIC MT	Liquid chilled unit for air cooled gas cooler/condenser	-12/+32	6–125 kW
PASSAD MT AC	Direct expansion on evaporator side with air cooled gas cooler(AC)	-10/+35	0,88–3,5 kW
PASSAD MT LC	Direct expansion on evaporator side with liquid cooled gas cooler(LC)	-10/+20	1,15–4,6 kW
SIROCCO MT	Low noise outdoor unit with air cooled gas cooler.	-10/+32	6–85 kW
BOTHNIA	Liquid chiller unit with liquid cooled gas cooler/condenser	-12/+32	6–125 kW

Freezer Unit LT(low temp.)

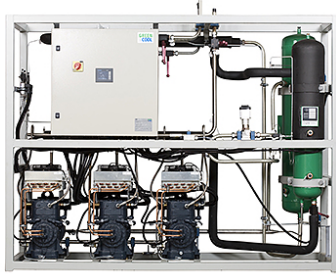
Model	Type of Unit	Design temp. (°C)	Output
MISTRAL LT	Direct expansion on the evaporator/gas cooler/condenser side	-37/+32	12–55 kW
BREEZE LT	Direct expansion on the evaporator side with liquid cooled gas cooler/condenser	-37/+32	12–55 kW
PASSAD LT AC	Direct expansion on evaporator side with air cooled gas cooler(AC)	-30/+35	0,37–1,48 kW
PASSAD LT LC	Direct expansion on evaporator side with liquid cooled gas cooler(LC)	-30/+20	0,48–1,92 kW
SIROCCO LT	Low noise outdoor unit with air cooled gas cooler.	-37/+32	2–31,8 kW
ARCTIC	Liquid chiller unit for pump circulation freezer with liquid cooled gas cooler/condenser	-35/+32	3–60 kW
BALTIC	For cascade systems. Direct expansion on evaporator side. Secondary fluid on condenser side is connected to the evaporator side on glycol chiller MT.	-37/+5	3–80 kW

Refrigeration unit/Freezer unit

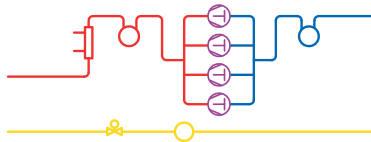
Model	Type of Unit	Design temp.(°C)	Design temp.(°C)	Output	Output
		Refrig. MT-side.	Freezer	Refrigeration	Freezer
CRYSTAL CH	Combined refrigeration unit and freezer unit with liquid chilled evaporator on MT-side and direct expansion on LT-side. The unit is made for air cooled gas cooler (AC) or liquid cooled gas cooler (LC)	-12/+32	-37	10–110 kW	5–35 kW
CRYSTAL DX	Combined Refrigeration unit and freezer unit for direct expansion on evaporator side and gas cooler side.	-10/+32	-37	10–110 kW	5–35 kW
SIROCCO MT/LT	Low noise outdoor unit with air cooled gas cooler.	-10/+32	-37	6–85 kW	2–31,8 kW

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

MISTRAL 345 LT



FLOW CHART



MISTRAL

MISTRAL is a refrigeration/freezer unit with direct expansion on the evaporator/gas cooler/condenser side. The Unit is available as an air conditioning unit (HT), a refrigeration unit (MT) and a freezer unit (LT) in several capacities. MISTRAL is designed for the refrigerant carbon dioxide (R744) for the lowest environmental impact possible.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Air cooled gas cooler, • Superheat exchanger (model HE1), • Extra liquid receiver,
- Antivibration mounts, • Flexible sleeves on the heat exchanger, • Web-server,
- Commission/training, • Service kit (drying filter & burst disc), • Compressor oil.

High temperature (HT)	140 HT	280 HT	3120 HT	4150 HT	4200 HT
Unit	Air conditioning unit - Direct expansion				
Refrigerant	R744				
Refrigeration output (kW)	43	86	129	150	172
Swept volume	12.6	25.2	37.8	42.8	50.4
Compressor (quantity)	1	2	3	4	4
Evaporation temp. (°C)	+2	+2	+2	+2	+2
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	620 ²	950 ²	1150 ²	1350 ²	

Medium temperature (MT)	130 MT	260 MT	390 MT	4120 MT
Unit	Chiller unit - Direct expansion			
Refrigerant	R744			
Refrigeration output (kW)	30	60	90	120
Swept volume	12.6	25.2	37.8	50.4
Compressor (quantity)	1	2	3	4
Evaporation temp. (°C)	-10	-10	-10	-10
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	620 ²	950 ²	1150 ²	1350 ²

Low temperature (LT)	115 LT	230 LT	345 LT	460 LT
Unit	Freezer unit - Direct expansion			
Refrigerant	R744			
Refrigeration output (kW)	13,5	27	40,5	54
Swept volume	12,6	25,2	37,8	50,4
Compressor (quantity)	1	2	3	4
Evaporation temp. (°C)	-34	-34	-34	-34
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	620 ²	1000 ²	1200 ²	1400 ²

• Discharge temperature from gas cooler: +30°C

• Voltage & HZ: 400/3/50

1) Up to 1300mm depending on chosen option.

2) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

BREEZE 420 MT



BREEZE

BREEZE is a refrigeration unit with direct expansion on the evaporator side and liquid cooled gas cooler/condenser. The unit is available as an air conditioning unit (HT), a refrigeration unit (MT) and a freezer unit (LT) with direct expansion on the cold side and glycol as secondary fluid on the gas cooler side. BREEZE is designed for the refrigerant carbon dioxide (R744) for the lowest environmental impact possible.

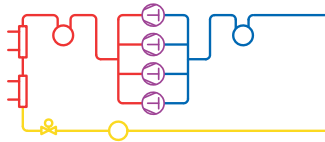
GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Superheat exchanger (model HE1), • Extra liquid receiver, • Antivibration mounts,
- Flexible sleeves on the heat exchanger, • Flexible sleeves on the liquid cooled gas cooler • Web-server, • Commission/training, • Service kit (drying filter & burst disc), • Compressor oil.

FLOW CHART



High temperature (HT)	140 HT	280 HT	3120 HT	4150 HT	4200 HT
Unit	Air Conditioning unit - Partly indirect system				
Refrigerant	R744				
Refrigeration output (kW)	43	86	129	150	172
Swept volume	12.6	25.2	37.8	42.8	50.4
Compressor (quantity)	1	2	3	4	4
Evaporation temperature (°C)	+3	+3	+3	+3	+3
Measure L x W x H (mm)	1975 x 1100 ³ x 1950		2480 x 1100 ³ x 1995	3000 x 1200 ² x 1950	
Weight (Kg)	1150 ⁴	1350 ⁴	1600 ⁴	2150 ⁴	2150 ⁴

Medium temperature (MT)	130 MT	260 MT	390 MT	4120 MT
Unit	Refrigeration unit - Partly indirect system			
Refrigerant	R744			
Refrigeration output (kW)	30	60	90	120
Swept volume	12.6	25.2	37.8	50.4
Compressor (quantity)	1	2	3	4
Evaporation temperature (°C)	-10	-10	-10	-10
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3200 x 1200 ² x 1950
Weight (Kg)	1150 ⁴	1350 ⁴	1600 ⁴	2150 ⁴

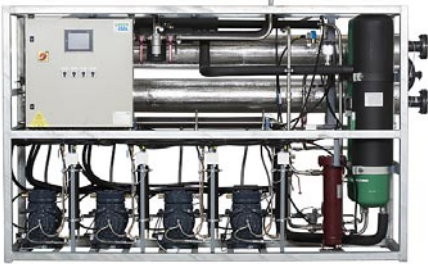
Low temperature (LT)	115 LT	230 LT	345 LT	460 LT
Unit	Freezer unit - Partly indirect system			
Refrigerant	R744			
Refrigeration output (kW)	13.5	27	40.5	54
Swept volume	12.6	25.2	37.8	50.4
Compressor (quantity)	1	2	3	4
Evaporation temperature (°C)	-30	-30	-30	-30
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 1200 ² x 1950
Weight (Kg)	1150 ⁴	1350 ⁴	1600 ⁴	2150 ⁴

- Secondary fluid: Ethylene glycol 40%
- Discharge temperature from gas cooler: +30°C
- Voltage & HZ: 400/3/50

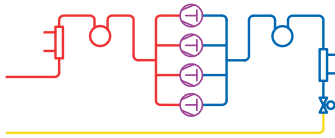
- 1) Up to 1300mm depending on chosen option.
- 2) Up to 1600mm depending on chosen option.
- 3) Up to 1500mm depending on chosen option.
- 4) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

ATLANTIC 4150HT



FLOW CHART



ATLANTIC

ATLANTIC is a liquid chiller unit for air cooled gas cooler/condenser. The unit is available as an air conditioning unit (HT) and a refrigeration unit (MT). ATLANTIC is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Air cooled gas cooler, • Superheat exchanger (model HE1), • Extra liquid receiver,
- Antivibration mounts, • Flexible sleeves on the heat exchanger,
- Flexible sleeves on the evaporator, • Web-server, • Commission/training,
- Service kit (drying filter & burst disc), • Compressor oil.

High temperature (HT)	140HT	280HT	3120HT	4150HT	4200HT
Unit	Air Conditioning unit - Partly indirect system				
Refrigerant	R744				
Refrigeration output (kW)	44	88	132	150	176
Swept volume	12.6	25.2	37.8	42.8	50.4
Compressor (quantity)	1	2	3	4	4
Secondary fluid	Water				
Temp. of Secondary fluid, In/Out (°C)	+12 /+7	+12 /+7	+12 /+7	+12 /+7	+12 /+7
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950	
Weight (Kg)	720 ²	1100 ²	1300 ²	1700 ²	

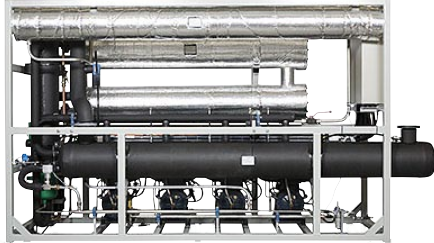
Medium temperature (MT)	130MT	260MT	390MT	4120MT
Unit	Refrigeration unit - Partly indirect system			
Refrigerant	R744			
Refrigeration output (kW)	28.5	57	85.5	114
Swept volume	12.6	25.2	37.8	50.4
Compressor (quantity)	1	2	3	4
Secondary fluid	Propylene glycol 37%			
Temp. of Secondary fluid, In/Out (°C)	-4/-8	-4/-8	-4/-8	-4/-8
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	900 ²	1100 ²	1300 ²	1700 ²

- Discharge temperature from gas cooler: +30°C
- Evaporation temperature: -12°C
- Voltage & HZ: 400/3/50

- 1) Up to 1300mm depending on chosen option.
- 2) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

PACIFIC 4150HT



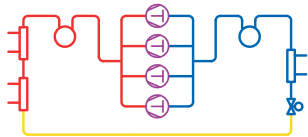
PACIFIC HT

PACIFIC is a liquid chiller unit (high temp.) with a liquid cooled gas cooler/condenser. PACIFIC is a completely indirect system with glycol/water on both the hot and cold sides. PACIFIC is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

FLOW CHART



Options

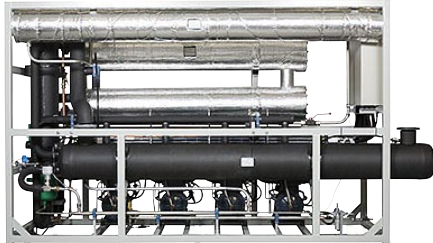
- Superheat exchanger (model HE1),
- Antivibration mounts,
- Flexible sleeves on the heat exchanger,
- Flexible sleeves on the evaporator,
- Flexible sleeves on the liquid cooled gas cooler,
- Web-server,
- Commission/training,
- Service kit (drying filter & burst disc),
- Compressor oil.

High temperature (HT)	140HT	280HT	3120HT	4150HT	4200HT
Unit	Liquid Chiller - Completely indirect systems				
Refrigerant	R744				
Refrigeration output (kW)	43	86	129	150	172
Swept volume	12.6	25.2	37.8	42.8	50.4
Compressor (quantity)	1	2	3	4	4
Secondary fluid	Water				
Temp of Secondary fluid (°C) In/Out	+12/+7	+12/+7	+12/+7	+12/+7	+12/+7
Coolant	Ethylene glycol 40%				
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		3200 x 1200 ² x 1950		
Weight (Kg)	1300 ³	1800 ³	2700 ³	3300 ³	

- Discharge temperature from gas cooler: +30°C
- Evaporation temperature: +2°C
- Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
- 2) Up to 1600mm depending on chosen option.
- 3) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

BOTHNIA 4120 MT



BOTHNIA MT

BOTHNIA is a liquid chiller unit (medium temp.) with a liquid cooled gas cooler/-condenser. BOTHNIA is a completely indirect system with glycol/water on both the hot and cold sides. BOTHNIA is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

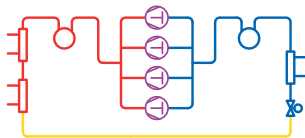
GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Superheat exchanger (model HE1), • Antivibration mounts, • Flexible sleeves on the heat exchanger, • Web-server, • Commission/training, • Service kit (drying filter & burst disc), • Compressor oil.

FLOW CHART



Medium temperature (MT)	130 MT	260 MT	390 MT	4120 MT
Unit	Liquid Chiller - Completely indirect systems			
Refrigerant	R744			
Refrigeration output, t2 -t2 /t1 (kW)	28,5	57	85,5	114
Swept volume	12,6	25,2	37,8	50,4
Compressor (quantity)	1	2	3	4
Secondary fluid	Propylene glycol 37%			
Temperature of Secondary fluid (°C)	-4/-8	-4/-8	-4/-8	-4/-8
Coolant	Ethylene glycol 40%			
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3200 x 900 ¹ x 1950
Weight (Kg)	1300 ²	1500 ²	2000 ²	2700 ²

- Discharge temperature from gas cooler: +30°C
 - Evaporation temperature: -12°C
 - Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
2) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

ARCTIC 460 LT



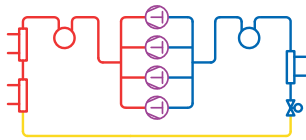
ARCTIC LT

ARCTIC LT is a chiller unit (low temp.) for fully indirect freezer systems using R744 refrigerant circulated by a pump, or 28% calcium chloride. The unit is supplied with air-cooled or liquid-cooled gas cooler as an option. ARCTIC is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

FLOW CHART



Options

- Air cooled gas cooler or liquid cooled gas cooler, • Extra liquid receiver,
- Flexible sleeves to the liquid cooled gas cooler, • Antivibration mounts,
- Web-server, • Commission/training, • Service kit (drying filter & burst disc),
- Compressor oil.

Low temperature (LT)	115 LT	230 LT	345 LT	460 LT
Unit	Freezer unit - Completely indirect system			
Refrigerant	R744 or CaCl ₂			
Refrigeration output (kW)	14	28	42	56
Swept volume	12,6	25,2	37,8	50,4
Compressor (quantity)	1	2	3	4
Secondary fluid	R744			
Temperature of Secondary fluid (°C)	-30	-30	-30	-30
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	1000 ²	1200 ²	1450 ²	1700 ²
• Air cooled gas cooler (option)	Direct expansion R744			
• Liquid cooled gas cooler (option)	Coolant: Ethylene glycol 40%			

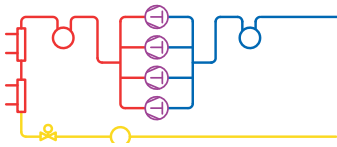
- Discharge temperature from gas cooler: +30°C
 - Evaporation temperature: -34°C
 - Voltage & HZ: 400/3/50
- 1) Up to 1300 mm depending on chosen option.
2) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

BALTIC 460 LT



FLOW CHART



BALTIC LT

BALTIC is a freezer unit (low temperature) for cascade systems with direct expansion on the evaporator side. The condenser is connected to the secondary fluid system on the evaporator side. The unit is a completely indirect system with direct expansion on the cold side and glycol/water on the hot side. BALTIC is designed for the refrigerant carbon dioxide(R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Antivibration mounts, • Flexible sleeves on the condenser, • Extra liquid receiver,
- Web-server, • Commission/training, • Service kit (drying filter & burst disc) • Compressor oil.

Low temperature (LT)	115 LT	230 LT	345 LT	460 LT
Unit	Cascade freezer unit - Completely indirect systems			
Refrigerant	R744			
Refrigeration output (kW)	15	30	45	60
Swept volume	12,6	25,2	37,8	50,4
Compressor (quantity)	1	2	3	4
Refrigerant	R744			
Refrigerant temp. (°C)	-35	-35	-35	-35
Coolant condenser	Propylene glycol 40%			
Coolant temperature (°C) in/out	-4/-8			
Measure L x W x H (mm)	1975 x 900 ¹ x 1950		2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950
Weight (Kg)	1000 ²	1200 ²	1450 ²	1700 ²

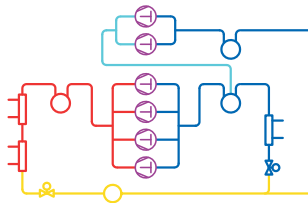
- Discharge temperature from gas cooler: +30°C
 - Evaporation temperature: -37°C
 - Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
2) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

CRYSTAL CH 3.1



FLOW CHART



CRYSTAL CH

CRYSTAL CH is a combined refrigeration unit and freezer unit with liquid chilled evaporator on MT-side and direct expansion on LT-side. The unit is made for air cooled gas cooler(AC) or liquid cooled gas cooler(WC). CRYSTAL is designed for the refrigerant carbon dioxide(R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Air cooled gas cooler or liquid cooled gas cooler.
- Superheat exchanger(model HE1)
- Extra liquid receiver.
- Antivibration mounts.
- Flexible sleeves on the heat exchanger.
- Flexible sleeves on the liquid cooled gas cooler.
- Flexible sleeves on the evaporator.
- Web-server.
- Commission/training.
- Service kit (drying filter & burst disc).
- Compressor oil.

Medium/Low temperature	CH 2.1	CH 2.2	CH 3.1	CH 3.2	CH 4.1	CH 4.2
Unit	Combined chiller unit/freezer unit					
Refrigerant	R744					
MT Net Refrigeration output (kW)	28	28	56	56	84	84
LT Refrigeration output (kW)	10–18,5	10–30	10–18,5	10–30	10–18,5	10–30
MT Compressor (quantity)	2	2	3	3	4	4
LT Compressor (quantity)	1	2	1	2	1	2
MT Swept volume	25,2	25,2	37,8	37,8	50,4	50,4
LT Swept volume	12,7	7-16	12,7	7-16	12,7	7-16
MT Secondary fluid	Propylene glycol 37%					
MT Temp. of secondary fluid (°C) in/out.	-4/-8					
MT Evaporation side temp. (°C)	-12					
LT Evaporator side	R744 - Direct expansion					
LT Evaporation side temp. (°C)	-37					
Measure L x W x H (mm)	2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950		3000 x 1200 ² x 2050		
Weight (Kg)	1700 ³	1900 ³		2100 ³		2300 ³
• Gas cooler (option)	for direct expansion alt. liquid cooled gas cooler.					

- Discharge temperature from gas cooler: +30°C
 - Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
 - 2) Up to 1600mm depending on chosen option.
 - 3) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

CRYSTAL DX 4.2



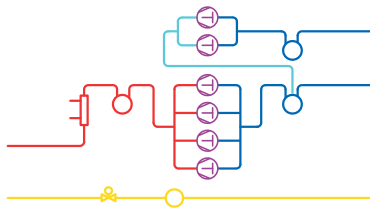
CRYSTAL DX

CRYSTAL DX is a combined chiller unit and freezer unit for direct expansion on evaporator side and gas cooler side. CRYSTAL is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

FLOW CHART



Option

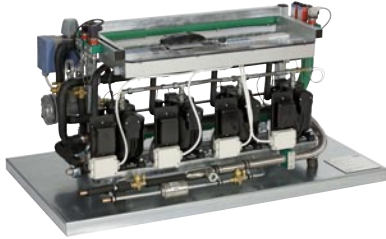
- Air cooled gas cooler or liquid cooled gas cooler, • Superheat exchanger (model HE1)
- Extra liquid receiver, • Antivibration mounts, • Flexible sleeves on the heat exchanger, • Flexible sleeves on the liquid cooled gas cooler, • Extra web-server,
- Commission/training, • Service kit (drying filter & burst disc), • Compressor oil.

Medium/Low temperature	DX 2.1	DX 2.2	DX 3.1	DX 3.2	DX 4.1	DX 4.2
Unit	Combined chiller unit/freezer unit					
Refrigerant	R744					
MT Net Refrigeration output (kW)	30	30	60	60	90	90
LT Refrigeration output (kW)	10–18,5	10–30	10–18,5	10–30	10–18,5	10–30
MT Compressor (quantity)	2	2	3	3	4	4
LT Compressor (quantity)	1	2	1	2	1	2
MT Swept volume	25,2	25,2	37,8	37,8	50,4	50,4
LT Swept volume	12,7	14	12,7	14	12,7	14
MT Evaporator side	R744 - Direct expansion					
MT Evaporation temperature (°C)	-10					
LT Evaporator side	R744 - Direct expansion					
LT Evaporation side temp. (°C)	-35					
Measure L x W x H (mm)	2480 x 900 ¹ x 1950	3000 x 900 ¹ x 1950		3000 x 1200 ² x 2000		
Weight (Kg)	1400 ³	1600 ³		2500 ³		2700 ³
• Gas cooler (option)	for direct expansion alt. liquid cooled gas cooler.					

- Discharge temperature from gas cooler: +30°C
- Voltage & HZ: 400/3/50
- 1) Up to 1300mm depending on chosen option.
- 2) Up to 1600mm depending on chosen option.
- 3) Basic weight without option.

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

PASSAD



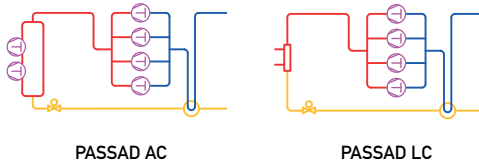
PASSAD

The PASSAD is a condensing unit, for direct expansion on evaporator side and equipped with air cooled gas cooler (AC) or liquid cooled gas cooler (LC). The PASSAD can be used as air conditioning (HT) in smaller computer rooms. The model is also suitable for cold rooms and cabinets (MT) or deep freezing rooms and cabinets (LT). The refrigerator is complete with built-in control system and electrical panel.

Options

- Evaporator, • Expansion valve, • Room control system.

FLOW CHART



Unit	PASSAD HT AC/LC		PASSAD MT AC/LC		PASSAD LT AC/LC	
Refrigerant	R744		R744		R744	
Refrigeration output (kW)	1.57–5.8	1.97–7.8	0.88–3.5	1.15–4.6	0.37–1.48	0.48–1.92
Design temperature (°C)	+5 /+35	+5 /+20	-10 /+35	-10 /+20	-30 /+35	-30 /+20
Compressor (quantity)	4		4		4	
Measure L x W x H (mm)	1300 x 700 x 780		1300 x 700 x 780		1300 x 700 x 780	
Weight (kg)	200		200		200	

- Voltage & HZ: 400/3/50
- Recommended fuse: 16A

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.

SIROCCO



SIROCCO

The model SIROCCO is a low noise outdoor unit with gas cooler included containing EC-fans with variable speed drive. The frame is made in galvanized steel with insulated panels. The unit is available in different models for air conditioning (HT), for cold rooms or cabinets (MT) and for deep freezing rooms or cabinets (LT). SIROCCO is a complete model with built-in parts and equipped with the control system. SIROCCO is environmental friendly and is designed for the refrigerant carbon dioxide (R744) for the lowest possible environmental impact.

GREEN CO₂NTROL

Our units are standard equipped with GREEN CO₂NTROL. The control system is user friendly, offers a complete surveillance of the establishment and also the possibility of remote control/steering.

Options

- Interface for communication with DANFOSS ADAP-COOL-system.
- Superheat exchanger (model HE1).
- Extra liquid receiver.
- Flexible sleeves on the heat exchanger.
- Antivibration mounts.
- Web-server.
- Commission/training.
- Service kit (drying filter & burst disc).
- Compressor oil.

Unit	HT	MT	LT	MT/LT
Refrigerant	R744	R744	R744	R744
Refrigeration output (kW)	10.5–135	6–85	2–31.8	2–33
Swept volume (m ³ /h)	3.5–37.8	3.5–37.8	3.5–37.8	3.5–37.8
Compressor (quantity)	1–3	1–3	1–3	1–3
Capacity steps	2–4	2–4	2–4	2–4
Evaporation temperature (°C)	+5	-10	-37	-37
Discharge temperature from gas cooler (°C)	+32	+32	+32	+32
Ambient temperature (°C)	+30	+30	+30	+30
Sound pressure db(A)10m	35–40	35–40	35–40	35–40
Electrical panel	Included	Included	Included	Included
Control system GREEN CO ₂ NTROL	Included	Included	Included	Included
Measure L x W x H (mm)	3100/4100 x 1120 x 2100	3100/4100 x 1120 x 2100	3100/4100 x 1120 x 2100	3100/4100 x 1120 x 2100
Weight (kg)	910-1750	910-1750	910-1750	910-1750

• Voltage & HZ: 400/3/50

We reserve the right to make modifications. Refrigeration outputs shown in the table are based on design temperatures. Some outputs are preliminary and should be determined in actual operational conditions as ambient temperature and water temperature will influence the output values.