ZANOTTI
a member of DAIKIN group

DB-D

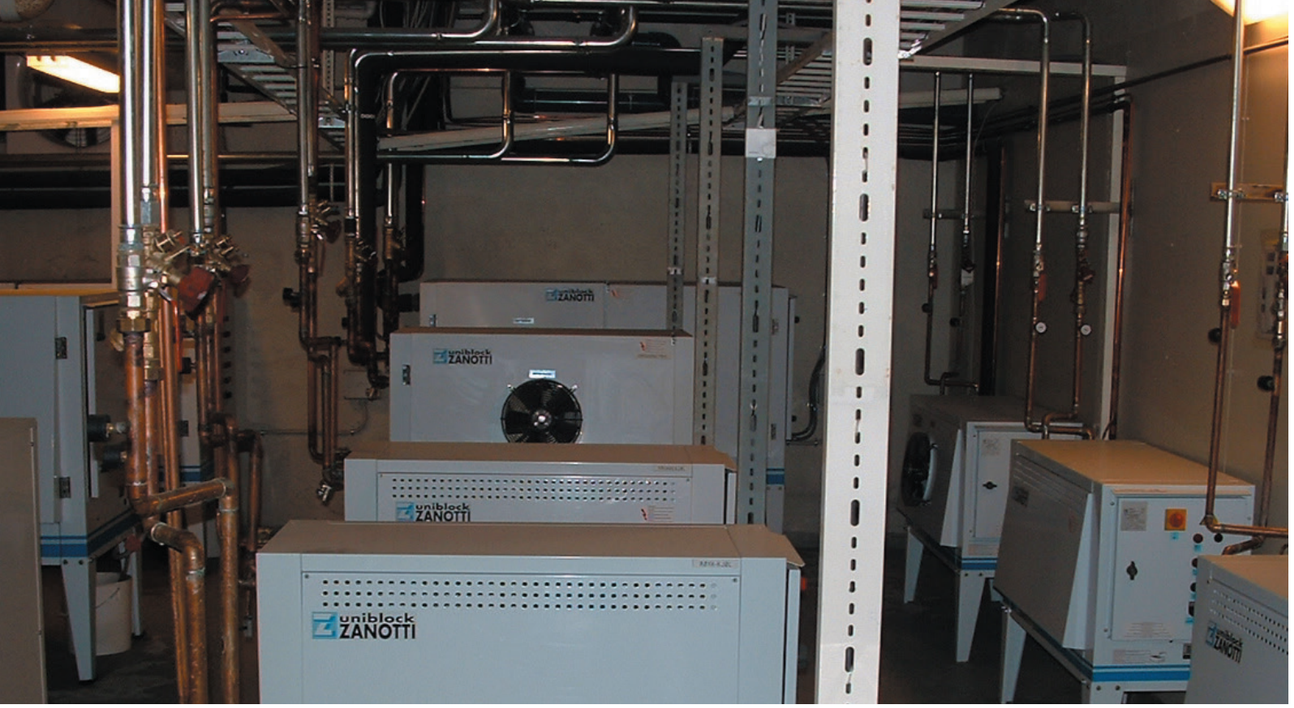
Split units suitable for industrial applications and freezing tunnel

› Extreme versatility of use, low-medium temperatures, polyvalent temperatures and freezing tunnels

› Suitable for different types of industrial applications

› Compact and highly resistant to any environmental condition (ideal for outdoor installation)

› Possible simultaneous management of one or more units



Powerful, reliable and versatile units mainly for industrial applications

The DB-D units are suitable for outdoor installation and designed to meet the requirements of storing goods inside big rooms.

The series is composed by four ranges: MDB for positive temperature rooms (max 1.776m^3 at Tc= +0°C, Tamb= +30°C), BDB for negative temperature rooms (max 2.140m^3 at Tc= -20°C, Tamb= +30°C), PDB for polyvalent rooms utilized either in medium or in low temperature (max 2.140m^3 at Tc= -20°C, Tamb= +30°C) and CDB for freezing tunnel.

It is a range that therefore responds to different types of industrial applications.

The split structure allows the assembly of evaporator and condenser separately, which ensures that the user has a choice of flexible installation, overcoming all the problems deriving from the lack of space that might prevent the mounting of the monoblock on the room wall.

The condensing unit is suitable for outdoor installation, is protected by a resistant pre-painted sheet steel body which preserves the machine against atmospheric agents and requires ground installation.

The units are equipped with semi-hermetic reciprocating compressors.

The CDB range in particular is equipped with semi-hermetic two-stage reciprocating compressors for applications in freezing tunnels reaching a temperature range of [-30°C | -50°C].

The DB-D units are supplied ready to use, already tested, precharged with refrigerant (only the condensing part, the evaporating part is under nitrogen pressure) and equipped with automatic electrical defrosting system.

The evaporating unit, positioned on the ceiling or on the floor inside the room and equipped with thermostatic expansion valve, is available in cubic version with waste water drainage.

An electrical panel with electromechanical instrumentation manages all the functions of the machine allowing the user a simple and complete adjustment of the parameters.

Maintenance is facilitated by the presence of front panels that can be opened for direct and safely access to the refrigeration system.

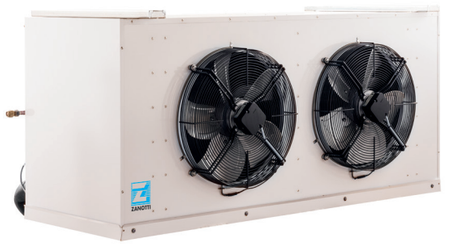
The DB-D units are available also for polyvalent applications: a special design that allows the use of the room either in medium or in low temperatures.

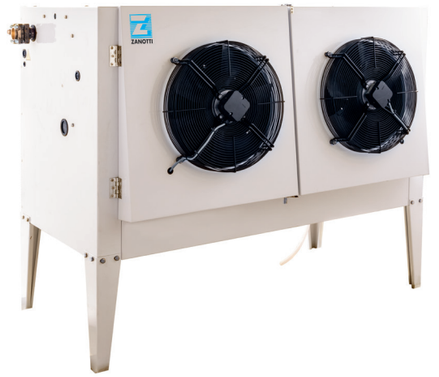
A remote control panel allows the simultaneous management of one or more units installed inside the same room.

All these features make the DB-D unit a powerful, reliable and versatile machine mainly for industrial applications.

Standard configuration

- Bitzer semi-hermetic compressor
- Power supply 380-400/3N~/50
- Air + Axial fan
- Cataphoresis to the condenser coil
- Crankcase heater
- Pressure controlled condenser fan speed regulator
- Electric defrost
- Cooling
- Bitzer semi-hermetic compressor
- Remote control panel with serial output
- Pressure gauges LP/HP (630mm)
- Fan cowl heaters on B - P - C temperature range (low temperature, dual-temperature, freezing)
- Circuit breacher + Magnetothermic Switches
- Voltage monitor
- Cumulative alarm relay in the main switchboard => Signal to DI of XLH360 remote control panel
- Cubic evaporator
- Packing in wooden box
- Liquid Receiver + Liquid receiver shut off valves
- Filter dryer
- Sight glass
- Liquid separator / exchanger
- Thermostatic valve expansion
- Pump-down stop system
- Condensing unit with refrigerant charge
- Evaporator under nitrogen pressure
- Switchboard with automatic switches
- Thermal overload protection for compressor
- Adjustable calibration Hp switch with manual reset
- Pressure controlled condenser fan speed regulator
- Adjustable calibration Lp switch with automatic reset
- 3m cable for power supply





Personalization options and accessories

Power supply:
- 220-230/3~/50
- 220-230/3~/60
- 440/3~/60
- 380-400/3N~/60

Type of defrost:
- Hot gas

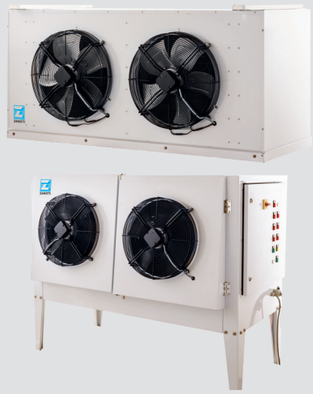
Control (temperature/humidity):
- Cooling + heating
- Cooling + Heating + Dehumidification with heat recovery system
- Cooling + Heating + Dehumidification with heat recovery system and undersized evaporator (heavy dehumidification)

Evaporator characteristics:
- Cataphoresis to the evaporator coil

Accessories kit:
- Audible and visual alarm
- Remote control panel for 2-3-4 units
- Evaporator air streamers

A wide range of applications

Technical data



DB-D

Medium temperature units

Code	SB.MDB150TEB23EXX	SB.MDB245NEB23EXX	SB.MDB245TEB23EXX	SB.MDB250NEB23EXX	SB.MDB250TEB23EXX	SB.MDB251TEB23EXX	SB.MDB351NEB23EXX	SB.MDB351TEB23EXX	SB.MDB260TEB23EXX	SB.MDB360NEB23EXX
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	5	5	12	12	15	25	25	30	30	50
Defrost	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
PED category	2	2	2	2	2	2	2	2	3	3
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt] [TC=0°C | TA=30°C]	9.164	12.657	15.364	20.284	24.165	28.414	35.852	40.837	41.181	54.638

Code	SB.MDB150TBB23EXX	SB.MDB245NBB23EXX	SB.MDB245TBB23EXX	SB.MDB250NBB23EXX	SB.MDB250TBB23EXX	SB.MDB251TBB23EXX	SB.MDB351NBB23EXX	SB.MDB351TBB23EXX	SB.MDB260TBB23EXX	SB.MDB360NBB23EXX	SB.MDB360TBB23EXX
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	4	5	7,5	10	15	20	25	30	25	35	40
Defrost	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
PED category	2	2	2	2	2	2	2	2	3	3	3
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt] [TC=0°C | TA=30°C]	10.067	14.408	17.863	23.636	26.549	26.114	35.976	38.891	40.747	52.262	58.189

Low temperature units

Code	SB.BDB150NBB23EXX	SB.BDB150TBB23EXX	SB.BDB245NBB23EXX	SB.BDB245TBB23EXX	SB.BDB250NBB23EXX	SB.BDB250TBB23EXX	SB.BDB251TBB23EXX	SB.BDB260NBB23EXX	SB.BDB351NBB23EXX	SB.BDB260TBB23EXX	SB.BDB351TBB23EXX	SB.BDB360NBB23EXX
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	7,5	10	12,5	15	20	25	30	30	40	40	50	50
Defrost	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
PED category	2	2	2	2	2	2	2	3	2	3	2	3
Working temperature [°C]	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt] [TC=-20°C | TA=30°C]	8.191	8.670	11.102	14.423	18.531	21.344	23.648	27.906	31.599	32.589	35.030	43.996

Code	SB.BDB360TBB23EXX
Refrigerant	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50
Compressor type	Semi-hermetic
HP compressor	60
Defrost	Electric
PED category	3
Working temperature [°C]	-15 ÷ -25
Cooling capacity [Watt] [TC=-20°C | TA=30°C]	50.751

Multi-temperature units

Code	SB.PDB150TBB23EXX	SB.PDB245TBB23EXX	SB.PDB251TBB23EXX	SB.PDB260TBB23EXX	SB.PDB360TBB23EXX
Refrigerant	R449A	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	10	15	30	60	80
Defrost	Electric	Electric	Electric	Electric	Electric
PED category	2	2	2	3	3
Working temperature [°C]	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25
Cooling capacity [Watt] [TC=-20°C | TA=30°C]	8.669	14.123	21.923	32.589	50.751

Freezing units

Code	SB.CDB150NBB23EXX	SB.CDB150TBB23EXX	SB.CDB250NBB23EXX	SB.CDB250TBB23EXX	SB.CDB260NBB23EXX	SB.CDB260TBB23EXX	SB.CDB260PBB23EXX	SB.CDB360TBB23EXX
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	7,5	10	15	25	30	40	50	75
Defrost	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
PED category	2	2	2	2	3	3	3	3
Working temperature [°C]	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50
Cooling capacity [Watt] [TC=40°C | TEV=-40°C]	3.826	5.439	12.334	16.413	19.637	28.592	32.826	49.239

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