

## Data Book

T\_BVEDXPF\_1119\_EN - HFC R410A

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# BVE DX-PF-E

12-156 kW

Air cooled condensers for IT Cooling with plug fans.  
Indoor installation.



The picture of the unit is indicative and may vary depending on the model

- Operation with outdoor temperature up to 50°C
- Possibility of ducting air intake and exhaust
- For indoor installation or sheltered from atmospheric agents
- Condensing coil in copper tubes and finned aluminium pack
- Plug fans with EC electric motor
- Refrigerant R410A

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## MEHITS CERTIFICATIONS



**ISO 9001 CERTIFICATION**  
Quality Management System



**ISO 14001 CERTIFICATION**  
Environmental Management System



**BS OHSAS 18001 CERTIFICATION**  
Occupational Health and Safety Management System



**CE MARKING**



**CCC – CQC CERTIFICATION**  
(People's Republic of China)



**EAC CERTIFICATION**  
(Russian Federation, Belarus, Kazakhstan)

## GENERAL CHARACTERISTICS

Air cooled condenser for IT Cooling with plug fans and horizontal air flow.  
Air flow from coil to fan.  
Condensers are supplied with seal charge; the refrigerant charge must be carried out.  
Frame for outdoor installation.  
The constructive solutions allow high application flexibility.  
14 models with capacity from 12 to 156 kW.  
The series has an independent power supply from the indoor unit.  
Among the indoor unit and the condenser is necessary the refrigerant connection and electrical connection of the condensing proportional control signal and the alarms.

## PRODUCT FEATURES AND BENEFITS

- Suitable for any type of plant
- Independent power supply from the indoor unit;
- Horizontal air flow – from coil to fan.
- Vertical air flow (by moving a panel).
- 3 sound levels and quiet operation particularly suitable for applications in urban areas.
- Operating life of the project exceeding 10 years

## F-GAS DIRECTIVE

The units highlighted in this publication contain <HFC R410A [GWP<sub>100</sub> 2088]> fluorinated greenhouse gases.

## WORKING LIMITS

AMBIENT AIR TEMPERATURE  
50°C Maximum ambient air temperature

POWER SUPPLY  
± 10% Maximum tolerance of the supply voltage (V)  
± 2% Maximum unbalancing of the phases.

## TRANSPORT AND STORAGE TEMPERATURE

During transport and if the machine is not installed at the reception, do not remove the packaging and place the machine in an enclosed, dry and protected from sunlight site at temperatures ranging between -30°C and 50°C in absence of superficial condensation.

# BVE DX-PF-E

## MODEL IDENTIFICATION

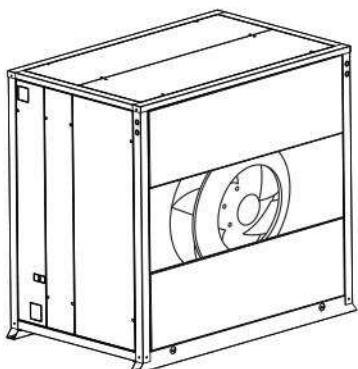
<b>BVE DX-PF-E STD T 14</b>	
<b>BVE DX</b>	Air cooled condenser
<b>PF</b>	Plug fan
<b>-E</b>	Fans with EC electric motor
<b>STD</b>	Sound level STD – standard LNO – low noise (Nominal air flow at 85%) ELN - extremely low noise (Nominal air flow at 70%)
<b>T</b>	Power supply T – Three-phases
<b>14</b>	Capacity (kW)

## AVAILABLE SERIES

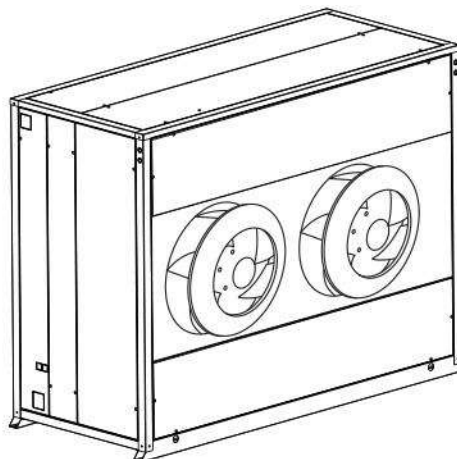


<b>BVE DX-PF-E STD</b>	Remote condenser equipped with EC fan Standard acoustic version Power supply 380-400V / 3Ph / 50Hz
<b>BVE DX-PF-E LNO</b>	Remote condenser equipped with EC fan Low noise acoustic version Power supply 380-400V / 3Ph / 50Hz
<b>BVE DX-PF-E ELN</b>	Remote condenser equipped with EC fan Extremely low noise acoustic version Power supply 380-400V / 3Ph / 50Hz

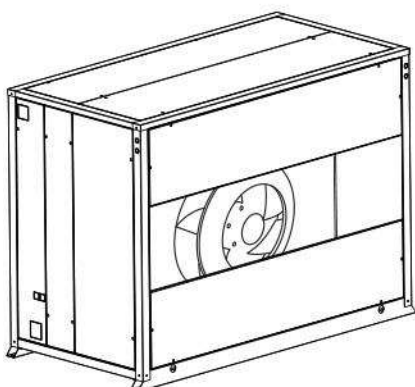
## AVAILABLE MODELS



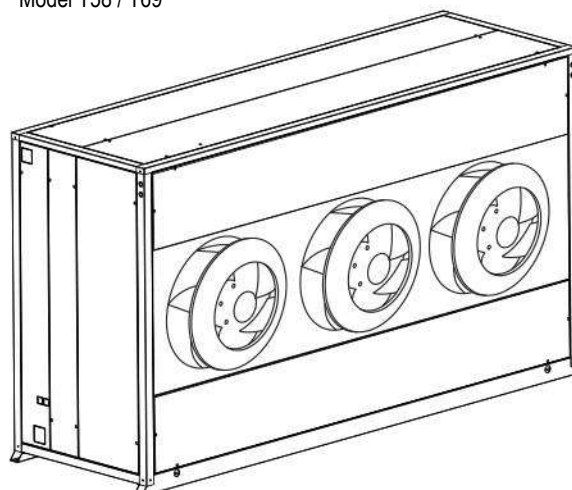
Model T11 / T14 / T17 / T21



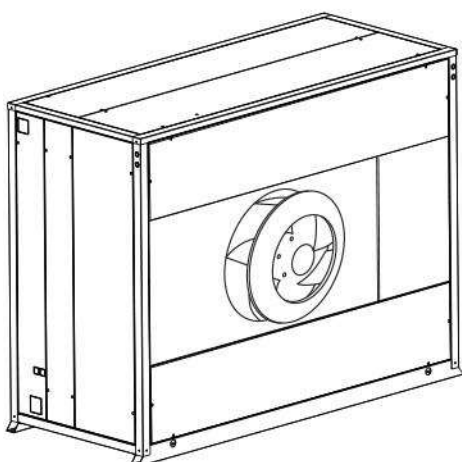
Model T58 / T69



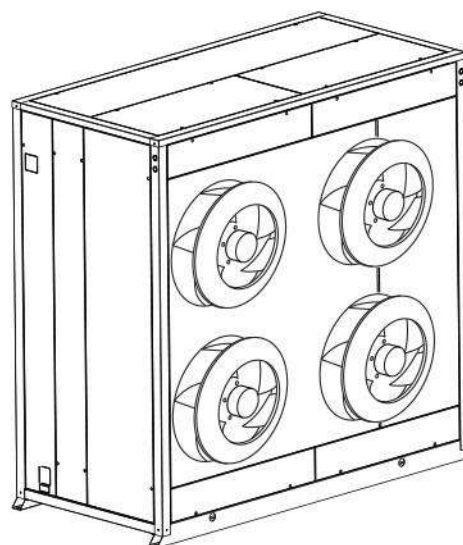
Model T24 / T33



Model T86 / T114



Model T38 / T44



Model T108 / T144

## MAIN COMPONENTS



### FRAMEWORK

- Base, self-supporting frame and panelling in steel plate with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders.
- Colour: RAL 9002
- Removable panels.
- Lateral compartment for electrical panel with direct access to control and regulation devices;

### FAN SECTION

- Centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans).
- EC electric motor with external rotor.
- Integrated motor thermal protection.
- Motor rotation speed control through a 0-10Vdc proportional signal.
- IP54 enclosure class.
- Rotation speed control with integrated controller

### CONDENSING COIL

- Condensing coil in copper tubes and high efficiency aluminium fins, specifically developed to provide high heat transfer and lower pressure drops.
- The coil is supplied with seal charge.

### REFRIGERANT CIRCUIT

- Service Schrader valve on refrigerant inlet pipe. The valve can be used for the emptying of the sealing charge, the creation of the vacuum and the refrigerant charge operation.
- Welding copper connection on the gas inlet and liquid outlet manifolds.
- Valves on gas and liquid line for coupling to refrigerant pipe. The valves are supplied in mounting kit.

### ELECTRICAL PANEL

The electrical panel is positioned inside the condenser structure; remove the side panel to access. Electrical panel in accordance with EN60204-1 norms, suitable for outdoor installation complete with:

- Terminals for power supply:
  - power supply - the power supply is independent of the indoor unit.
  - 0-10Vdc signal for fan rotation speed control - to be connected to the indoor unit.
  - alarm signal of the fans - to be connected to the indoor unit.

## TECHNICAL DATA

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
<b>STD version</b>								
<b>CAPACITY (1)</b>	kW	<b>12,5</b>	<b>16,0</b>	<b>18,7</b>	<b>22,2</b>	<b>25,5</b>	<b>35,5</b>	<b>40,7</b>
Air flow	m <sup>3</sup> /h	4900	4900	4900	4900	6400	8000	10000
Fans engaged power	kW	0,38	0,42	0,45	0,52	0,64	1,30	1,14
<b>LNO version</b>								
<b>CAPACITY (1)</b>	kW	<b>11,3</b>	<b>14,3</b>	<b>16,6</b>	<b>19,5</b>	<b>22,6</b>	<b>31,5</b>	<b>36,0</b>
Air flow	m <sup>3</sup> /h	4165	4165	4165	4165	5440	6800	8500
Fans engaged power	kW	0,26	0,28	0,30	0,34	0,42	0,83	0,74
<b>ELN version</b>								
<b>CAPACITY (1)</b>	kW	<b>9,92</b>	<b>12,4</b>	<b>14,3</b>	<b>16,6</b>	<b>19,5</b>	<b>26,9</b>	<b>30,9</b>
Air flow	m <sup>3</sup> /h	3430	3430	3430	3430	4480	5600	7000
Fans engaged power	kW	0,16	0,17	0,19	0,21	0,26	0,50	0,49
<b>COMMON DATA</b>								
<b>POWER SUPPLY</b>	V/ph/Hz	380-400/3/50						
<b>PLUG FANS</b>	n.	1	1	1	1	1	1	1
External static pressure	Pa	50	50	50	50	50	50	50
Max external static pressure	Pa	375	350	332	290	748	474	298
Max absorbed current (FLA)	A	1,6	1,6	1,6	1,6	4,3	4,3	3,6

MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
<b>STD version</b>								
<b>CAPACITY (1)</b>	kW	<b>47,7</b>	<b>63,0</b>	<b>74,6</b>	<b>92,5</b>	<b>116</b>	<b>124</b>	<b>156</b>
Air flow	m <sup>3</sup> /h	10000	16000	16000	24000	32000	28000	36000
Fans engaged power	kW	1,24	2,18	2,39	3,34	4,74	5,63	7,40
<b>LNO version</b>								
<b>CAPACITY (1)</b>	kW	<b>41,7</b>	<b>55,9</b>	<b>65,4</b>	<b>82,2</b>	<b>103</b>	<b>109</b>	<b>138</b>
Air flow	m <sup>3</sup> /h	8500	13600	13600	20400	27200	23800	30600
Fans engaged power	kW	0,80	1,40	1,51	2,15	3,04	3,57	4,69
<b>ELN version</b>								
<b>CAPACITY (1)</b>	kW	<b>35,3</b>	<b>47,1</b>	<b>55,6</b>	<b>71,1</b>	<b>89,5</b>	<b>93,6</b>	<b>118</b>
Air flow	m <sup>3</sup> /h	7000	11200	11200	16800	22400	19600	25200
Fans engaged power	kW	0,48	0,84	0,92	1,29	1,82	2,10	2,76
<b>COMMON DATA</b>								
<b>POWER SUPPLY</b>	V/ph/Hz	380-400/3/50						
<b>PLUG FANS</b>	n.	1	2	2	3	4	3	4
External static pressure	Pa	50	50	50	50	50	50	50
Max external static pressure	Pa	268	552	512	542	515	204	237
Max absorbed current (FLA)	A	3,6	8,6	8,6	12,9	17,2	12,9	17,2

1. Referred to condensing temperature at 50°C and outdoor air temperature at 35°C.  
The units highlighted in this publication contain <HFC R410A [GWP<sub>100</sub> 2088]> fluorinated greenhouse gases.



## ACOUSTIC DATA

The series is available in 3 versions:

**Standard units – STD:** Standard noise level. No air flow reduction

**Low Noise units – LNO:** Reduced noise level. Nominal air flow reduction at 85%.

**Extremely low noise units – ELN:** Extremely reduced noise level. Nominal air flow reduction at 70%.

**WARNING:**

In a closed room the noise produced by a sound source reaches the listener in two different ways:

- Directly
- Reflected from the surrounding walls, floor, ceiling, from furniture.

With the same sound source, the noise produced in a closed room is greater than that produced outdoors. In fact, the sound pressure level generated by the source, must be added to the one reflected from the room. Also, the shape of the room affects the sound.

**It is pointed out that a reduction of air flow on the condenser coils causes a reduction in the capacity of the condenser and a greater energy engagement of the compressors.**

### STD VERSION

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
Sound power level [Lw] (1)	dB(A)	76	76	76	76	82	87	86
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	61	61	61	61	67	72	70
At 5 m	dB(A)	50	50	50	50	56	61	60
At 10 m	dB(A)	45	45	45	45	51	56	55
MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
Sound power level [Lw] (1)	dB(A)	86	93	93	96	98	100	101
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	70	77	77	79	82	83	84
At 5 m	dB(A)	60	67	67	70	72	74	75
At 10 m	dB(A)	55	61	61	64	66	68	69

### LNO VERSION

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
Sound power level [Lw] (1)	dB(A)	72	72	72	72	78	83	82
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	57	57	57	57	63	68	66
At 5 m	dB(A)	46	46	46	46	52	57	56
At 10 m	dB(A)	41	41	41	41	47	52	51
MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
Sound power level [Lw] (1)	dB(A)	82	89	89	93	94	96	97
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	66	73	73	76	78	79	80
At 5 m	dB(A)	56	63	63	67	68	70	71
At 10 m	dB(A)	51	57	57	61	62	64	65

### ELN VERSION

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
Sound power level [Lw] (1)	dB(A)	67	67	67	67	73	78	78
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	52	52	52	52	58	63	62
At 5 m	dB(A)	41	41	41	41	47	52	52
At 10 m	dB(A)	36	36	36	36	42	47	47
MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
Sound power level [Lw] (1)	dB(A)	78	84	84	88	90	91	92
Average sound pressure level [Lpm] (2)								
At 1m	dB(A)	62	68	68	71	74	74	75
At 5 m	dB(A)	52	58	58	62	64	65	66
At 10 m	dB(A)	47	52	52	56	58	59	60

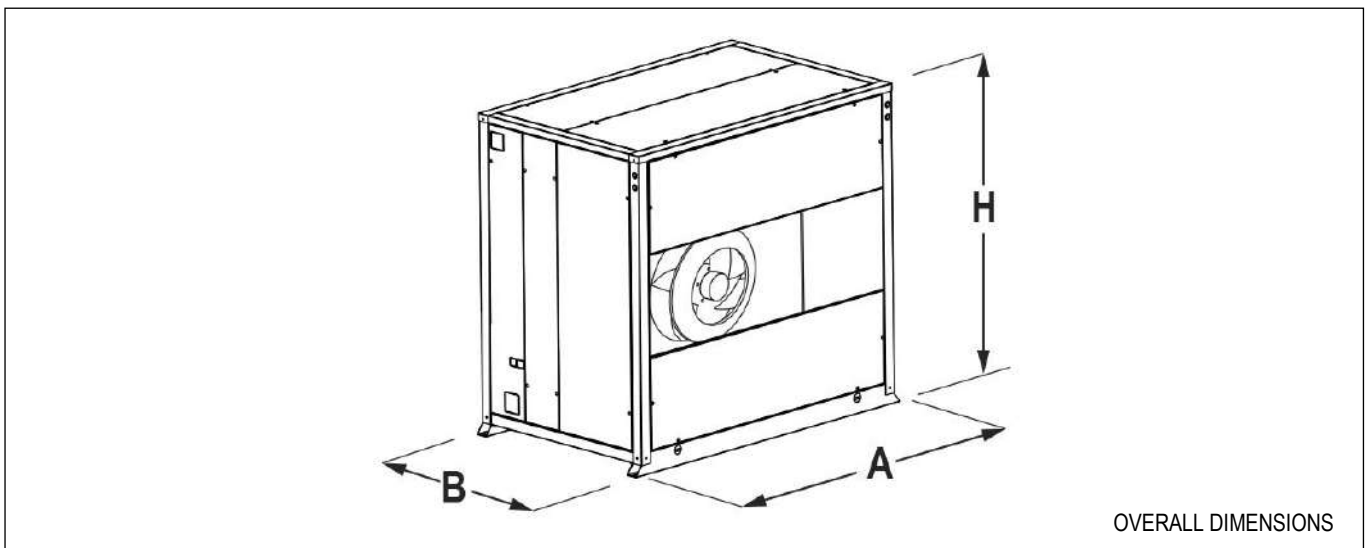
1. Sound power level [Lw] according to ISO EN 9614 - 2.
2. Average sound pressure level [L<sub>Pm</sub>] according to ISO EN 3744

# BVE DX-PF-E

## DIMENSIONS, WEIGHTS & REFRIGERANT CONNECTIONS

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
A - Length	mm	890	890	890	890	1190	1190	1390
B - Width	mm	880	880	880	880	880	880	880
H - Height	mm	900	900	900	900	900	900	1300
REFRIGERANT CONNECTIONS								
Liquid - ODS	Ø mm	16	16	16	16	18	18	18
Gas - ODS	Ø mm	18	18	22	22	22	22	22
NET WEIGHT	kg	143	148	153	163	210	222	284

MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
REFRIGERANT CONNECTIONS		1390	1840	1840	2290	1840	2290	1840
A - Length	mm	880	880	880	880	880	880	880
B - Width	mm	1300	1300	1300	1300	1800	1300	1800
H - Height	mm							
Liquid - ODS	Ø mm	18	22	22	22	22	22	28
Gas - ODS	Ø mm	22	35	35	35	35	35	35
NET WEIGHT	kg	310	387	421	515	625	557	673



## REFRIGERANT CHARGE

The condenser is supplied with seal charge. **Refrigerant must be charged.**

MODEL		T 11	T 14	T 17	T 21	T 24	T 33	T 38
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (1)	kg	0,8	1,2	1,7	2,6	2,5	3,8	4,3
HFC R410A - F Gas - CO <sub>2</sub> equivalent	t	1,67	2,51	3,55	5,43	5,22	7,93	8,98

MODEL		T 44	T 58	T 69	T 86	T 108	T 114	T 144
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (1)	kg	6,4	5,9	8,8	10,2	9,4	10,3	14,0
HFC R410A - F Gas - CO <sub>2</sub> equivalent	t	13,36	12,32	18,37	21,30	19,63	21,51	29,23

1. Refrigerant charge required for the condenser operation only. Internal unit, connections pipes and optionals are excluded.

## RECOMMENDED REFRIGERANT LINES

Diameter of the recommended refrigerant lines for connection to MEHITS S.p.A. air conditioners and referred to "EQUIVALENT LENGHT".

Please always refer to the "INSTALLATION DIAGRAM" to properly select all necessary components

Verify the need to use pressure limiting devices (safety valves) where not already provided for by Directive 2014/68 / EU.

**Nominal diameter: Refrigerant connection of the indoor unit. In some cases, the diameter of the refrigerant lines may not correspond with the nominal diameter. This is completely normal. It is enough to provide a reduction fitting to adjust the diameter.**

## "SI" INTERNATIONAL SYSTEM PIPES DIAMETERS

SI system	Diameter	mm	6	8	10	12	16	18	22	28	35
	Thickness	mm	1	1	1	1	1	1	1	1,5	1,5

## INVERTER COMPRESSORS

Model	Line	Nominal diameter Ø [mm]	EQUIVALENT LENGHT FOR INVERTER COMPRESSORS R410A									
			5[m]	10[m]	15[m]	20[m]	25[m]	30[m]	35[m]	40[m]	45[m]	50[m]
25	Gas	16	18mm						22mm			
	Liquid	16	16mm						18mm			
40	Gas	18	18mm				22mm					
	Liquid	16	18mm				22mm					
012 M1 S	Gas	12	12mm						16mm			
	Liquid	12	12mm									
018 M1 S	Gas	16	16mm						18mm			
	Liquid	12	12mm		16mm							
022 M1 S	Gas	16	16mm						18mm			
	Liquid	16	16mm									
030 M1 S	Gas	18	18mm				22mm					
	Liquid	16	16mm				18mm					
047 M1 S	Gas	22	22mm									
	Liquid	22	22mm									
042 M2 D	Gas	16	16mm				18mm					
	Liquid	16	16mm									
068 M2 D	Gas	18	18mm				22mm					
	Liquid	16	16mm				18mm					
094 M2 D	Gas	22	22mm						28mm			
	Liquid	22	22mm									
120 M4 D	Gas	28	22mm						28mm			
	Liquid	22	22mm									
150 M4 D	Gas	28	22mm						28mm			
	Liquid	22	22mm									

For equivalent lengths over 50m, please contact the Manufacturer's Sales Office.

## ON/OFF COMPRESSORS

Model	Line	Nominal diameter Ø [mm]	EQUIVALENT LENGHT FOR ON/OFF COMPRESSORS R410A									
			5[m]	10[m]	15[m]	20[m]	25[m]	30[m]	35[m]	40[m]	45[m]	50[m]
007 P1 S	Gas	12	12mm									
	Liquid	12	12mm									
009 P1 S	Gas	12	12mm									
	Liquid	12	12mm									
011 P1 S	Gas	12	12mm				16mm					
	Liquid	12	12mm									
014 P1 S	Gas	16	16mm									
	Liquid	12	12mm				16mm					
016 P1 S	Gas	16	16mm									
	Liquid	12	12mm		16mm							
020 P1 S	Gas	16	16mm						18mm			
	Liquid	16	16mm									
022 P1 S	Gas	16	16mm				18mm					
	Liquid	16	16mm									
026 P1 S	Gas	22	18mm						22mm			
	Liquid	16	16mm				18mm					

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Model	Line	Nominal diameter Ø [mm]	EQUIVALENT LENGHT FOR ON/OFF COMPRESSORS R410A									
			5[m]	10[m]	15[m]	20[m]	25[m]	30[m]	35[m]	40[m]	45[m]	50[m]
032 P1 S	Gas	22	18mm					22mm				
	Liquid	16	16mm					18mm				
037 P1 S	Gas	22	18mm				22mm					
	Liquid	16	16mm				18mm					
041 P1 S	Gas	22	22mm									
	Liquid	22	22mm									
045 P1 S	Gas	22	22mm									
	Liquid	22	22mm									
039 P2 D	Gas	16	16mm					18mm				
	Liquid	16	16mm									
048 P2 D	Gas	16	16mm				18mm					
	Liquid	16	16mm					18mm				
055 P2 D	Gas	22	18mm					22mm				
	Liquid	16	16mm					18mm				
062 P2 D	Gas	22	18mm					22mm				
	Liquid	16	16mm					18mm				
075 P2 D	Gas	22	22mm									
	Liquid	22	22mm									
082 P2 D	Gas	22	22mm									
	Liquid	22	22mm									
092 P2 D	Gas	22	22mm									
	Liquid	22	22mm									
102 P2 D	Gas	22	22mm					28mm				
	Liquid	22	22mm									
117 P4 D	Gas	28	22mm					28mm				
	Liquid	22	22mm									
146 P4 D	Gas	28	22mm				28mm					
	Liquid	22	22mm					28mm				

For equivalent lengths over 50m, please contact the Manufacturer's Sales Office.

## "IMPERIAL" SYSTEM PIPES DIAMETERS

IMPERIAL system	Diameter	inch	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 3/8"
		mm	6,35	9,52	12,7	15,87	19,05	22,22	25,4	28,57	34,92
Thickness	mm	1	1	1	1	1	1	1	1,25	1,25	

## INVERTER COMPRESSORS

Model	Line	Nominal diameter Ø [mm]	EQUIVALENT LENGHT FOR INVERTER COMPRESSORS R410A									
			15[ft] 5[m]	35[ft] 10[m]	50[ft] 15[m]	65[ft] 20[m]	80[ft] 25[m]	100[ft] 30[m]	115[ft] 35[m]	130[ft] 40[m]	150[ft] 45[m]	165[ft] 50[m]
25	Gas	16	3/4"					7/8"				
	Liquid	16	5/8"					3/4"				
40	Gas	18	3/4"				7/8"					
	Liquid	16	5/8"				3/4"					
012 M1 S	Gas	12	1/2"					5/8"				
	Liquid	12	1/2"									
018 M1 S	Gas	16	5/8"					3/4"				
	Liquid	12	1/2"				5/8"					
022 M1 S	Gas	16	5/8"					3/4"				
	Liquid	16	5/8"									
030 M1 S	Gas	18	3/4"					7/8"				
	Liquid	16	5/8"				3/4"					
047 M1 S	Gas	22	7/8"									
	Liquid	22	7/8"									
042 M2 D	Gas	16	5/8"					3/4"				
	Liquid	16	5/8"									



# BVE DX-PF-E

068 M2 D	Gas	18	3/4"				7/8"			
	Liquid	16	5/8"				3/4"			
094 M2 D	Gas	22	7/8"				1"			
	Liquid	22	7/8"							
120 M4 D	Gas	28	7/8"				1"			
	Liquid	22	7/8"							
150 M4 D	Gas	28	7/8"				1"			
	Liquid	22	7/8"							

For equivalent lengths over 165ft / 50m, please contact the Manufacturer's Sales Office.

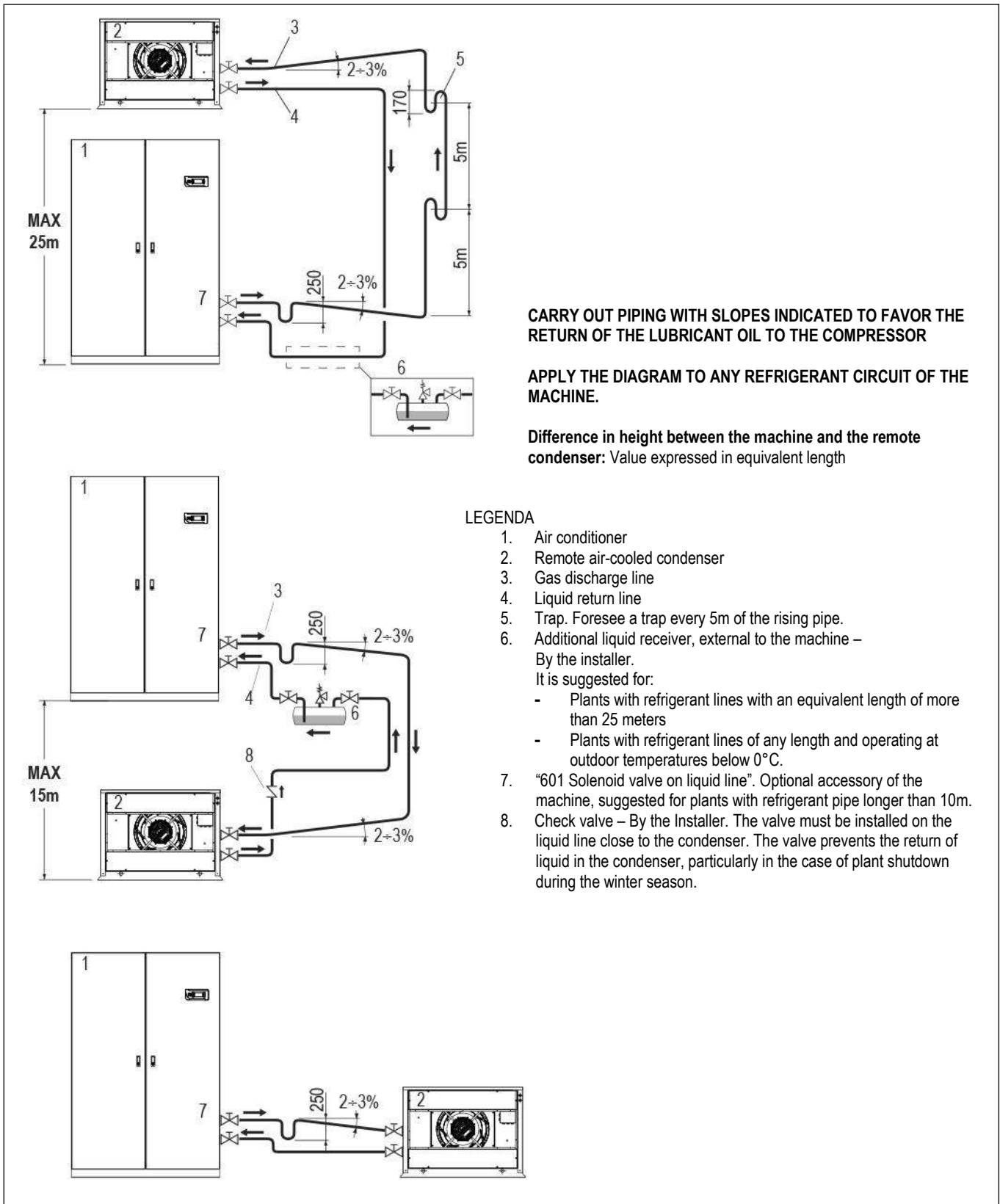
## ON/OFF COMPRESSORS

Model	Line	Nominal diameter Ø [mm]	EQUIVALENT LENGHT FOR ON/OFF COMPRESSORS R410A									
			15[ft] 5[m]	35[ft] 10[m]	50[ft] 15[m]	65[ft] 20[m]	80[ft] 25[m]	100[ft] 30[m]	115[ft] 35[m]	130[ft] 40[m]	150[ft] 45[m]	165[ft] 50[m]
007 P1 S	Gas	12	1/2"									
	Liquid	12	1/2"									
009 P1 S	Gas	12	1/2"									
	Liquid	12	1/2"									
011 P1 S	Gas	12	1/2"				5/8"					
	Liquid	12	1/2"									
014 P1 S	Gas	16	5/8"									
	Liquid	12	1/2"				5/8"					
016 P1 S	Gas	16	5/8"									
	Liquid	12	1/2"				5/8"					
020 P1 S	Gas	16	5/8"						3/4"			
	Liquid	16	5/8"									
022 P1 S	Gas	16	5/8"						3/4"			
	Liquid	16	5/8"									
026 P1 S	Gas	22	3/4"				7/8"					
	Liquid	16	5/8"						3/4"			
032 P1 S	Gas	22	3/4"				7/8"					
	Liquid	16	5/8"						3/4"			
037 P1 S	Gas	22	3/4"				7/8"					
	Liquid	16	5/8"				3/4"					
041 P1 S	Gas	22	7/8"									
	Liquid	22	7/8"									
045 P1 S	Gas	22	7/8"									
	Liquid	22	7/8"									
039 P2 D	Gas	16	5/8"						3/4"			
	Liquid	16	5/8"									
048 P2 D	Gas	16	5/8"				3/4"					
	Liquid	16	5/8"						3/4"			
055 P2 D	Gas	22	3/4"				7/8"					
	Liquid	16	5/8"						3/4"			
062 P2 D	Gas	22	3/4"				7/8"					
	Liquid	16	5/8"						3/4"			
075 P2 D	Gas	22	7/8"									
	Liquid	22	7/8"									
082 P2 D	Gas	22	7/8"									
	Liquid	22	7/8"									
092 P2 D	Gas	22	7/8"									
	Liquid	22	7/8"									
102 P2 D	Gas	22	7/8"							1"		
	Liquid	22	7/8"									
117 P4 D	Gas	28	7/8"						1 1/8"			
	Liquid	22	7/8"									
146 P4 D	Gas	28	7/8"				1 1/8"					
	Liquid	22	7/8"						1 1/8"			

For equivalent lengths over 165ft / 50m, please contact the Manufacturer's Sales Office.



## INSTALLATION DIAGRAM



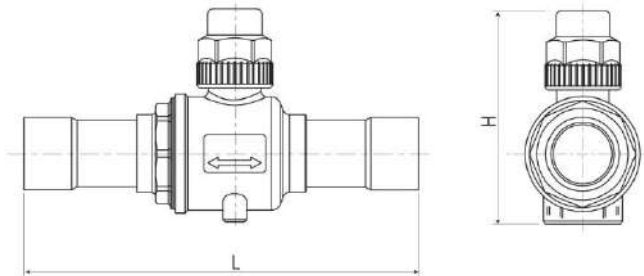
### WARNING

It is necessary to provide the refrigerant charge for the connection pipes and for the remote air-cooled condenser. Charge refrigerant in the suitable quantity and lubricant oil in 10% ratio of charged refrigerant. Lubricant oil must be the same type as the charged one as shown on the compressor plate.

## STOP VALVES

Ball valves for refrigerant line. The valves are supplied in mounting kit.

Connections ODS	Kv Factor	PS	PED.	H	L	Weight
Ø [mm]	[m³/h]	[bar]		[mm]	[mm]	[g]
12	5	45	Art. 3.3	73	121	300
16	14,5	45	Art. 3.3	80	141	410
18	14,5	45	Art. 3.3	80	141	410
22	24	45	Art. 3.3	95,5	175	760
28	40	45	Art. 3.3	101,5	206	1050
35	68	45	Art. 3.3	117	210	1518
42	100	45	Art. 3.3	127	239	2470
54	100	45	Art. 3.3	127	252	2520



## CONDENSING CONTROL

Units with EC plug-fans and horizontal air flow.

The units are equipped with continuous variation of the rotation speed of the fan motor, for condensing pressure control according to the 0÷10V proportional signal coming from the internal unit microprocessor control.

The units with low noise emission LNO and ELN have the air flow rate reduced respect to the nominal one:

- LNO version: reduction at 85% of the nominal
- ELN version: reduction at 70% of the nominal

In severe operating conditions, such as with high ambient air temperatures, the condensing control system bypasses the set of limiting air flow to provide the condensing coil the maximum air flow. Clearly this logic does increase the noise level of the unit but guarantees the indoor unit operation.

## POWER SUPPLY

The power supply is independent from the indoor unit.

The supply line must be equipped with all the protections and controls required by current regulations.

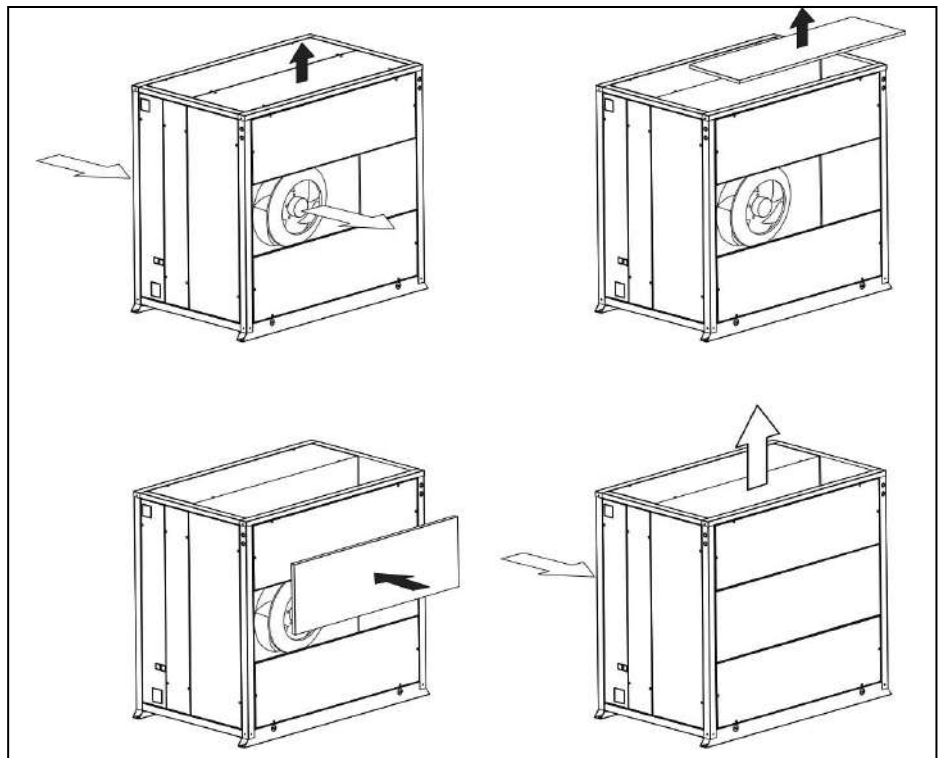
## ELECTRICAL CONNECTION WITH THE INDOOR UNIT

The electrical connection with the indoor unit is provided by the installer.

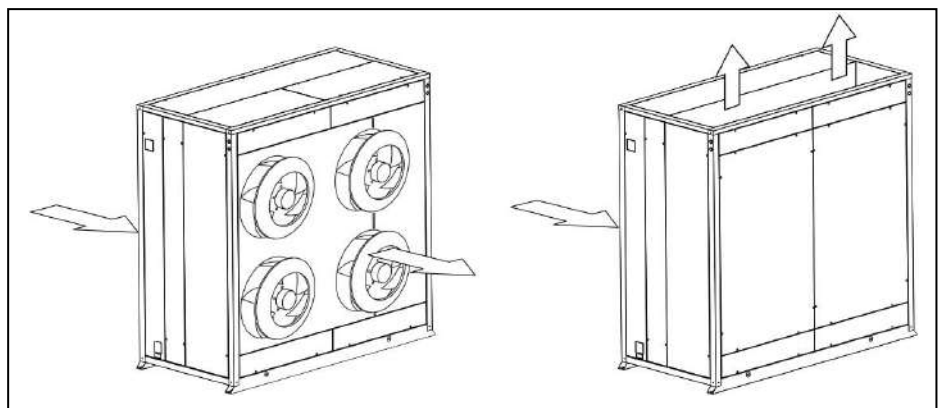
## HORIZONTAL / VERTICAL AIR DELIVERY

To change air delivery mode, from vertical to horizontal air delivery:

- Remove the panel on the top of the unit;
- reposition the removed panel on the front of the unit.



For T108 and T144 models the air flow must be defined during the order phase.



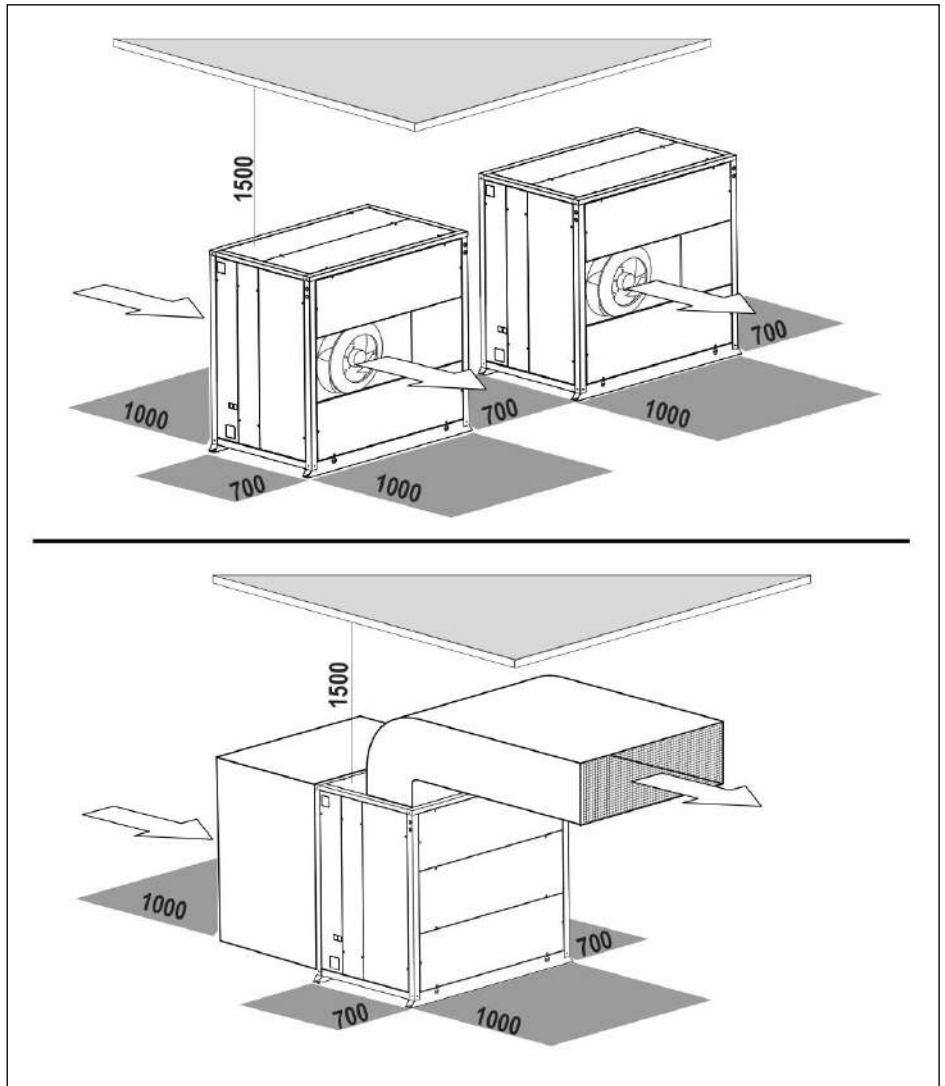


## RECOMMENDATIONS FOR INSTALLATION

The machine must be placed in an access area only allowed for OPERATORS, MAINTENANCE TECHNICIAN and TECHNICIANS; otherwise it must be surrounded by a fenced perimeter placed at least two meters from the external surfaces of the machine.

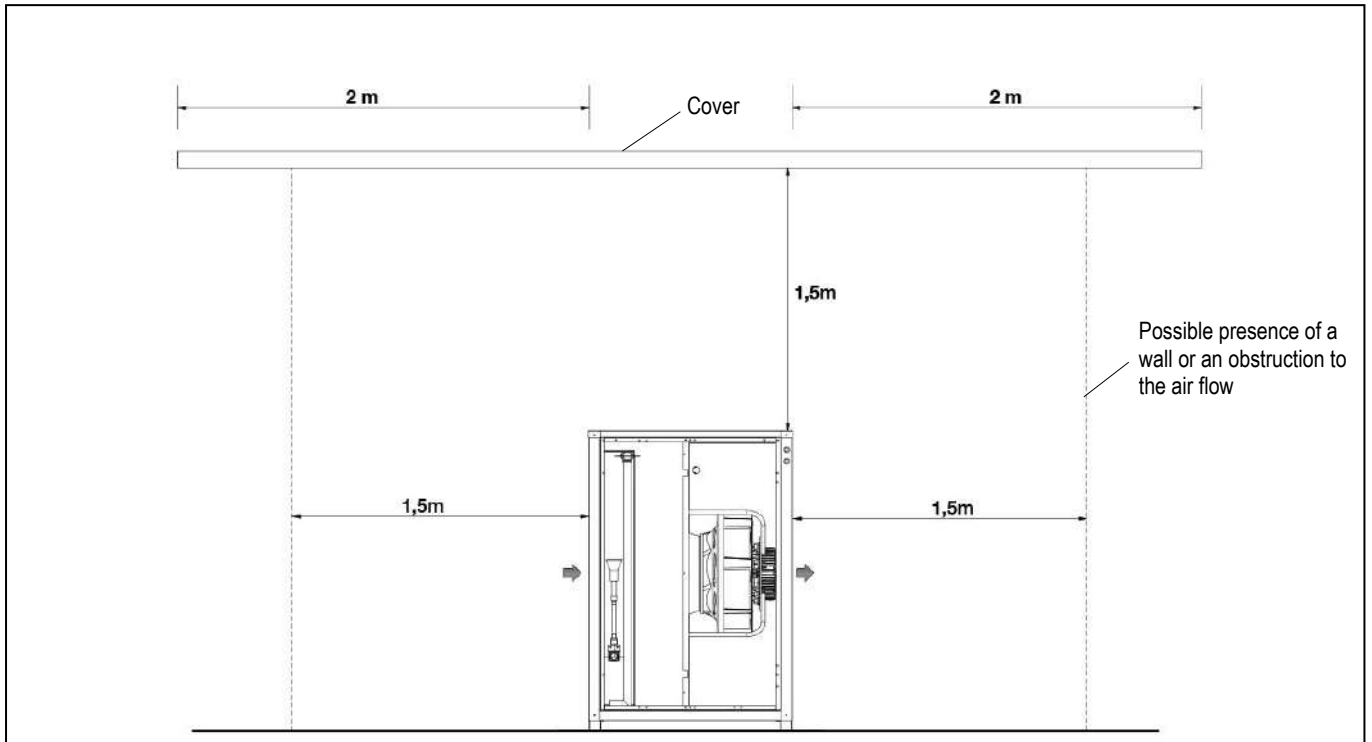
### CLEARANCE SPACE

Ensure adequate clearance spaces as indicated in below.

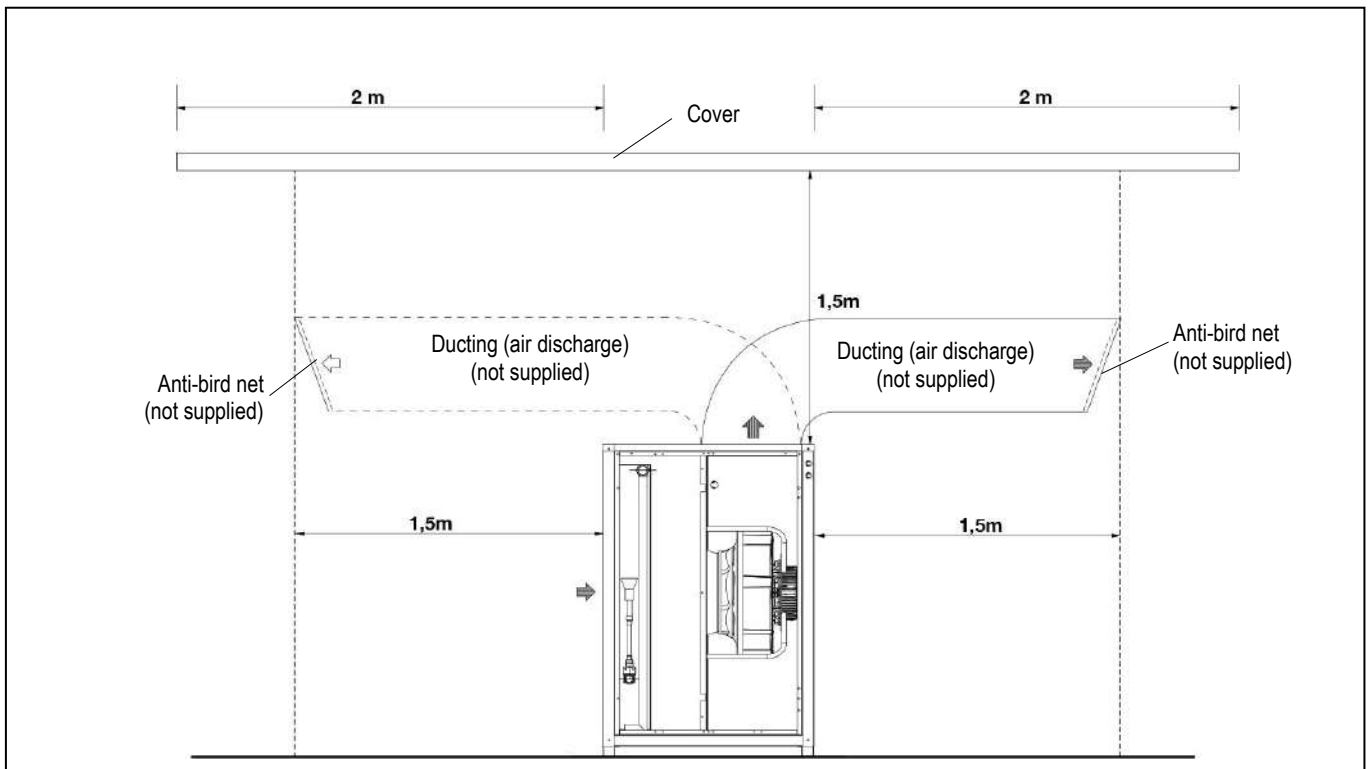


## OUTDOOR INSTALLATION

The machine must be installed under a cover or anyway protected against atmospheric agent. The dimensions of the cover must consider the possibility of transversal rain, characterized by a higher inclination of the rainfall caused by the wind. Only the installations with horizontal air discharge flow are permitted without ducting.



In case of vertical air discharge, ducting is mandatory.



### IMPORTANT

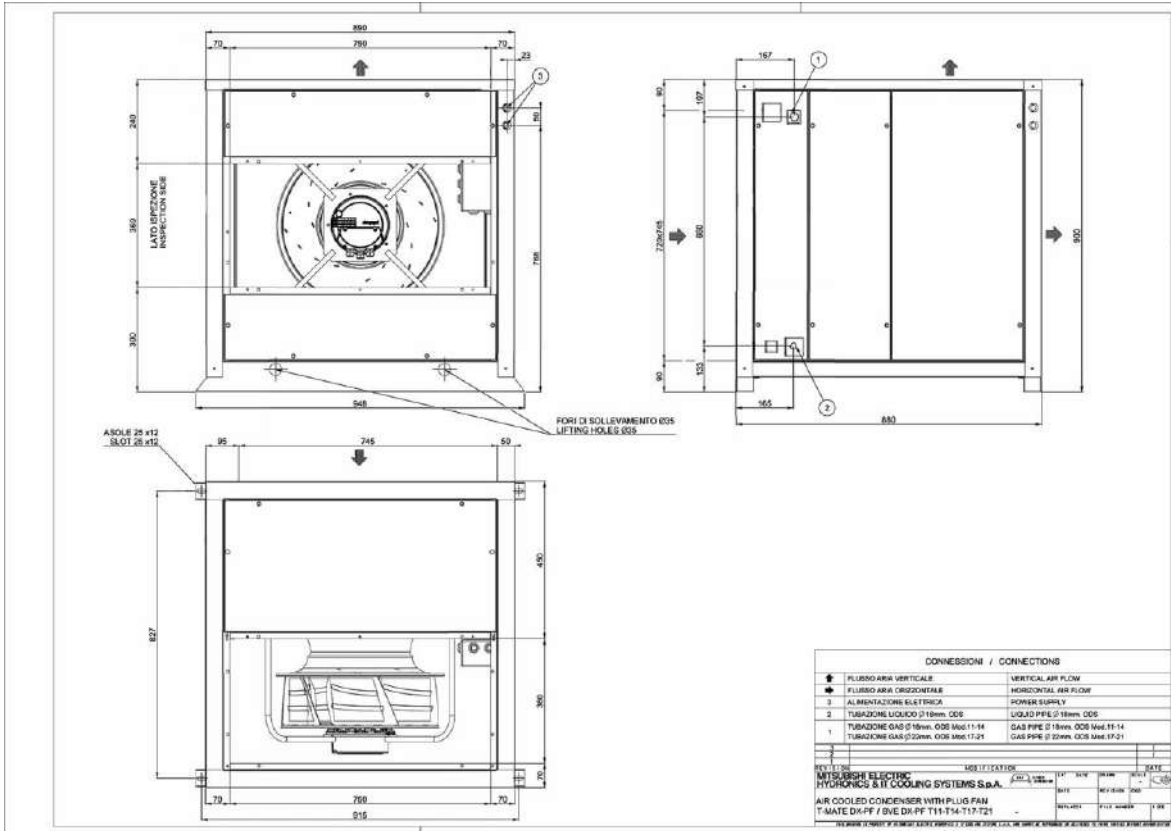
Plug fan must be protected from direct rain and atmospheric agents.

# BVE DX-PF-E

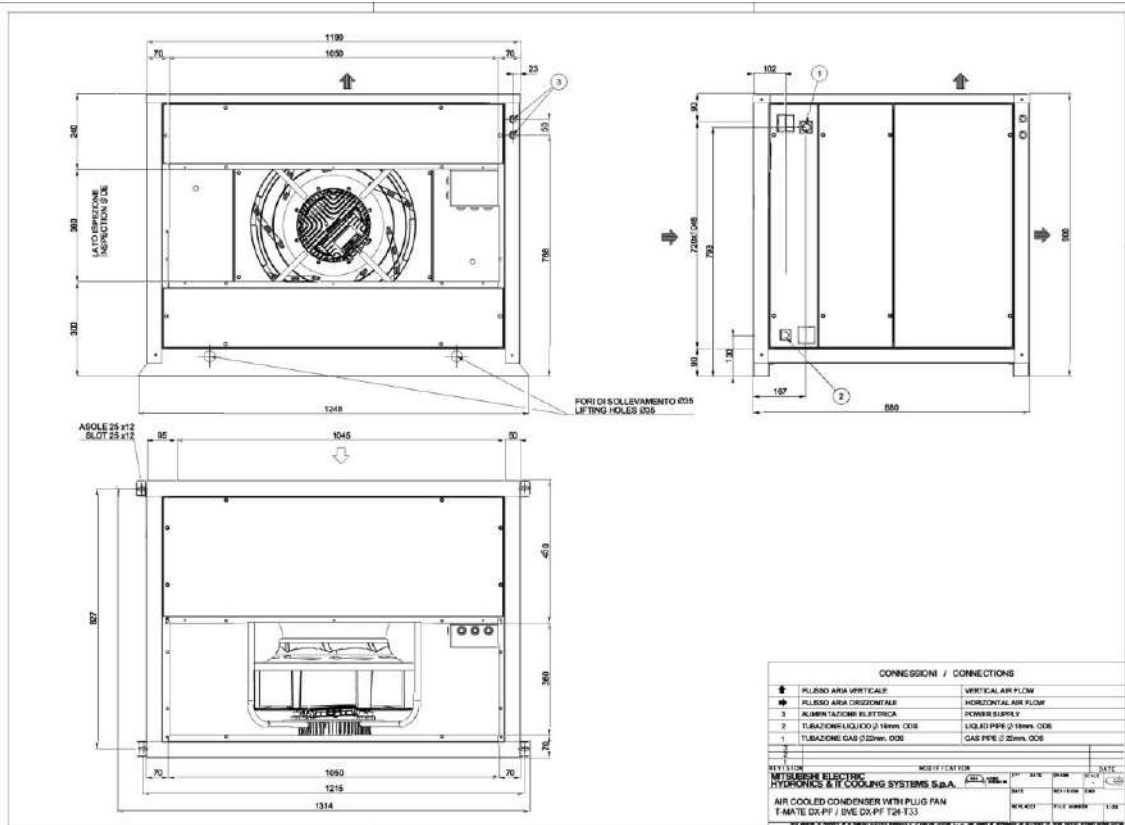
## MACHINE DRAWINGS

Dimensions in mm

T 11, T 14, T 17, T 21



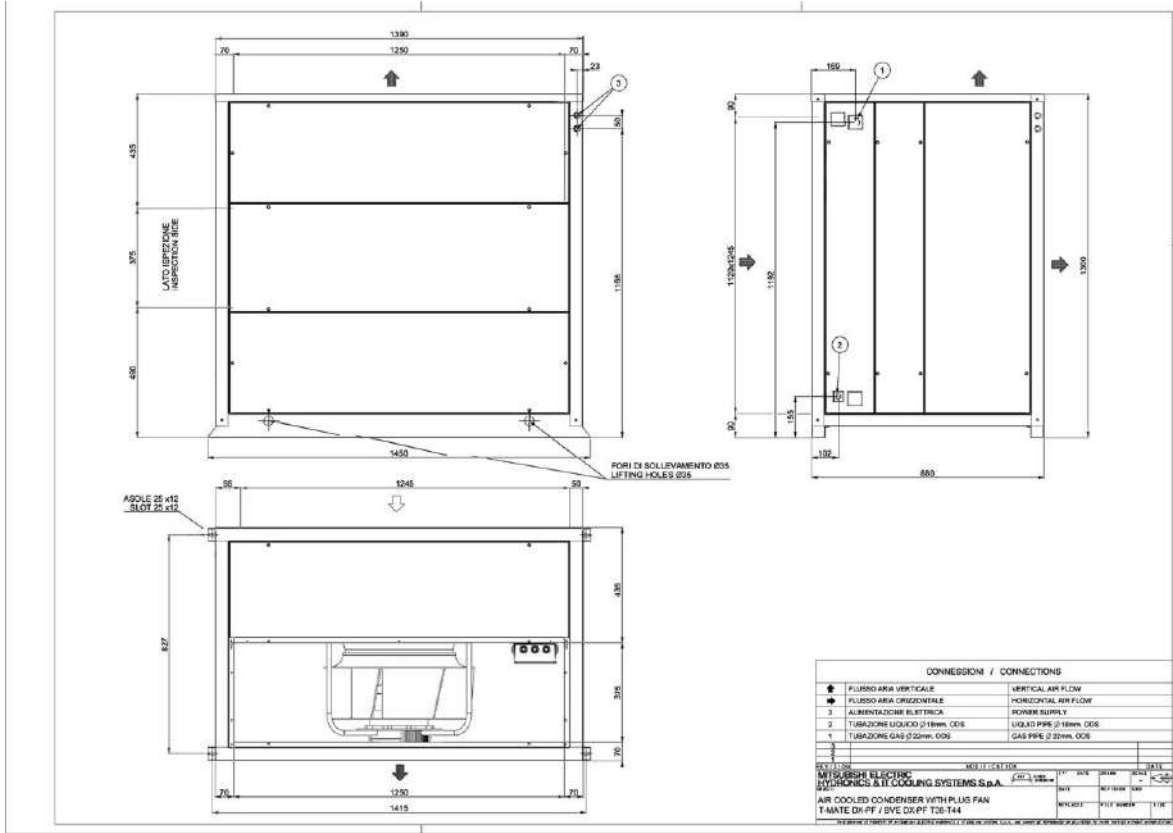
T 24, T 33



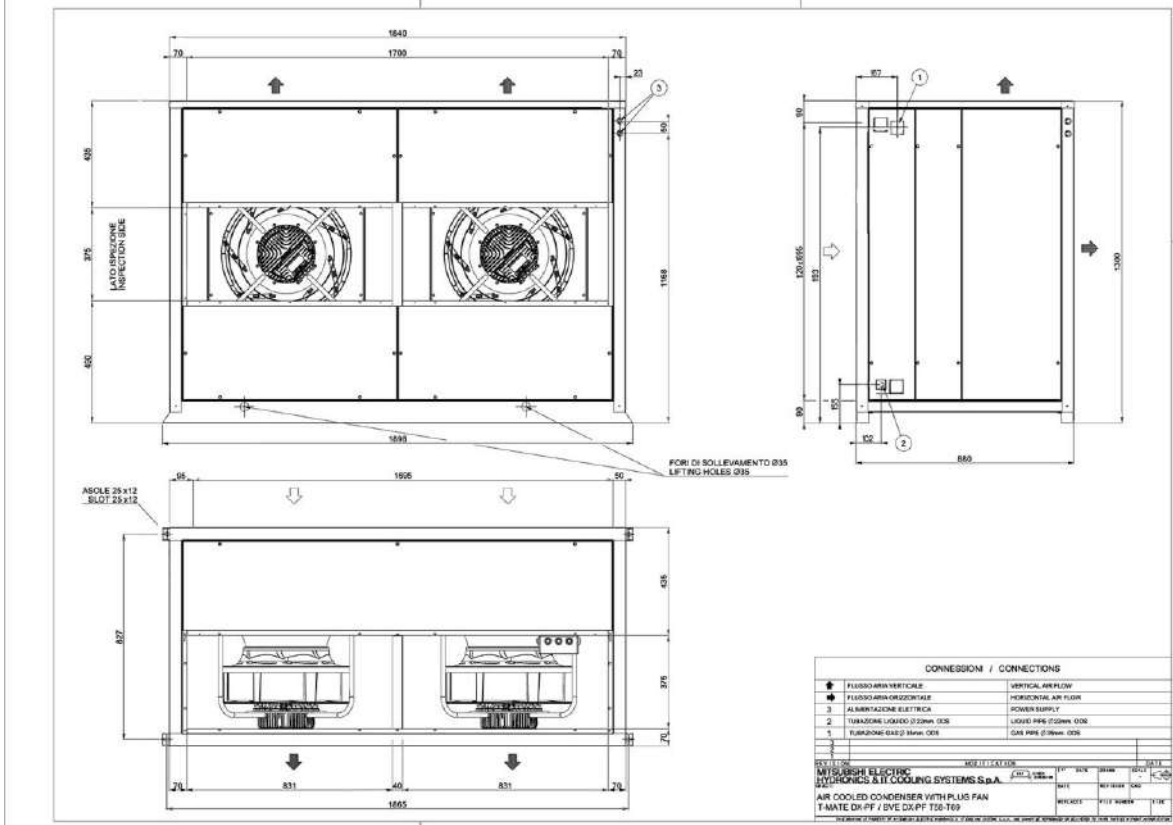
# BVE DX-PF-E

## MACHINE DRAWINGS Dimensions in mm

T 38, T 44



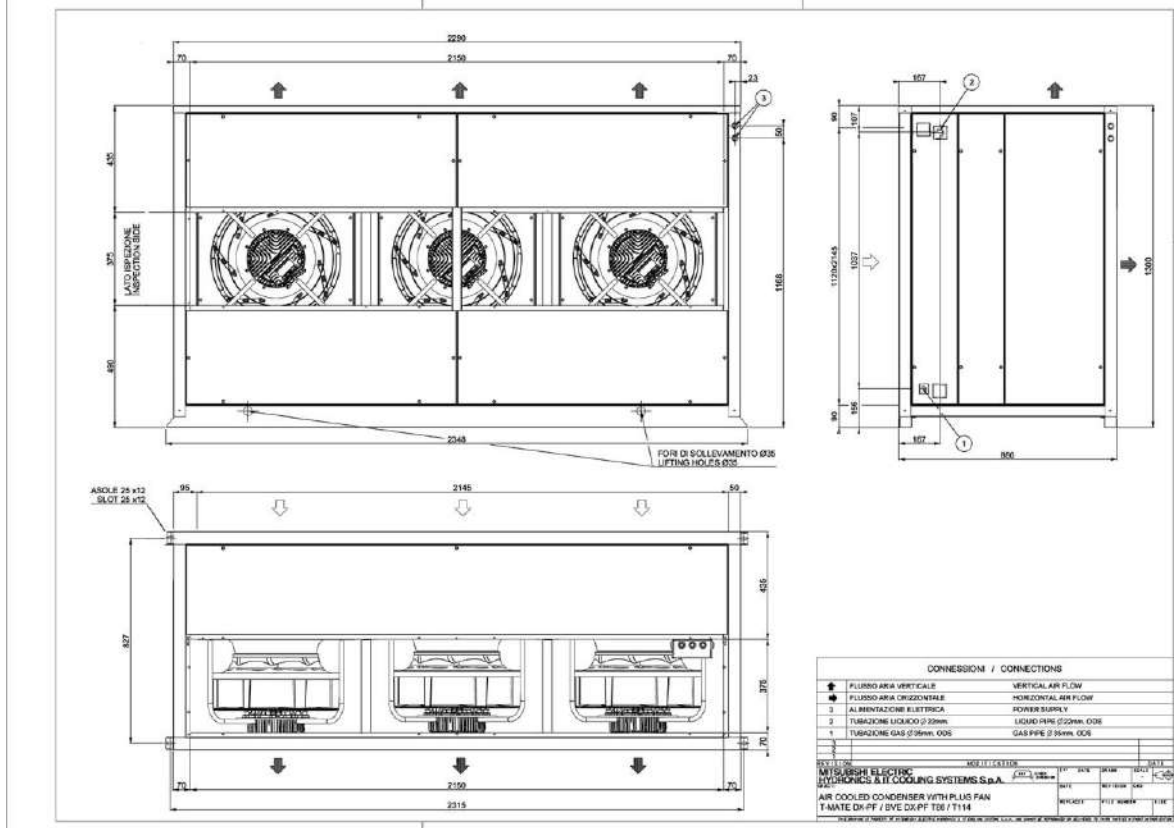
T 58, T 69



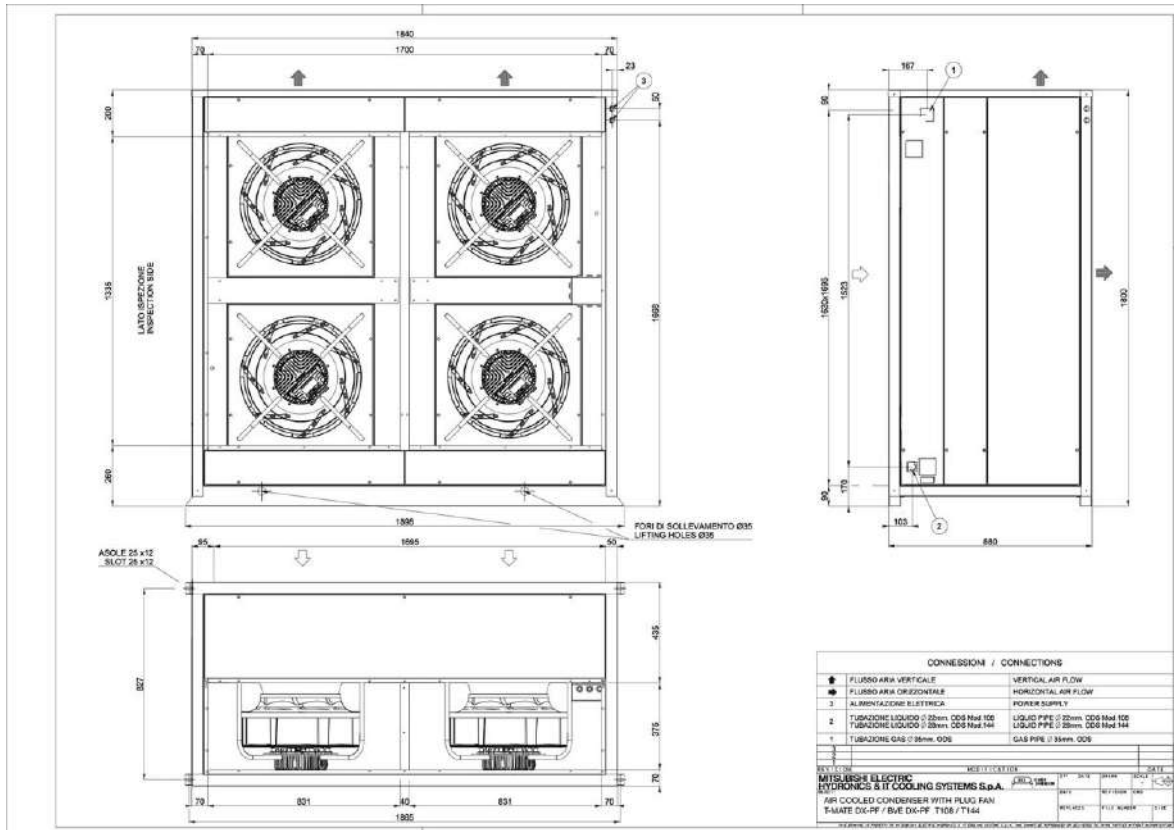
# BVE DX-PF-E

## MACHINE DRAWINGS Dimensions in mm

T 86, T 114



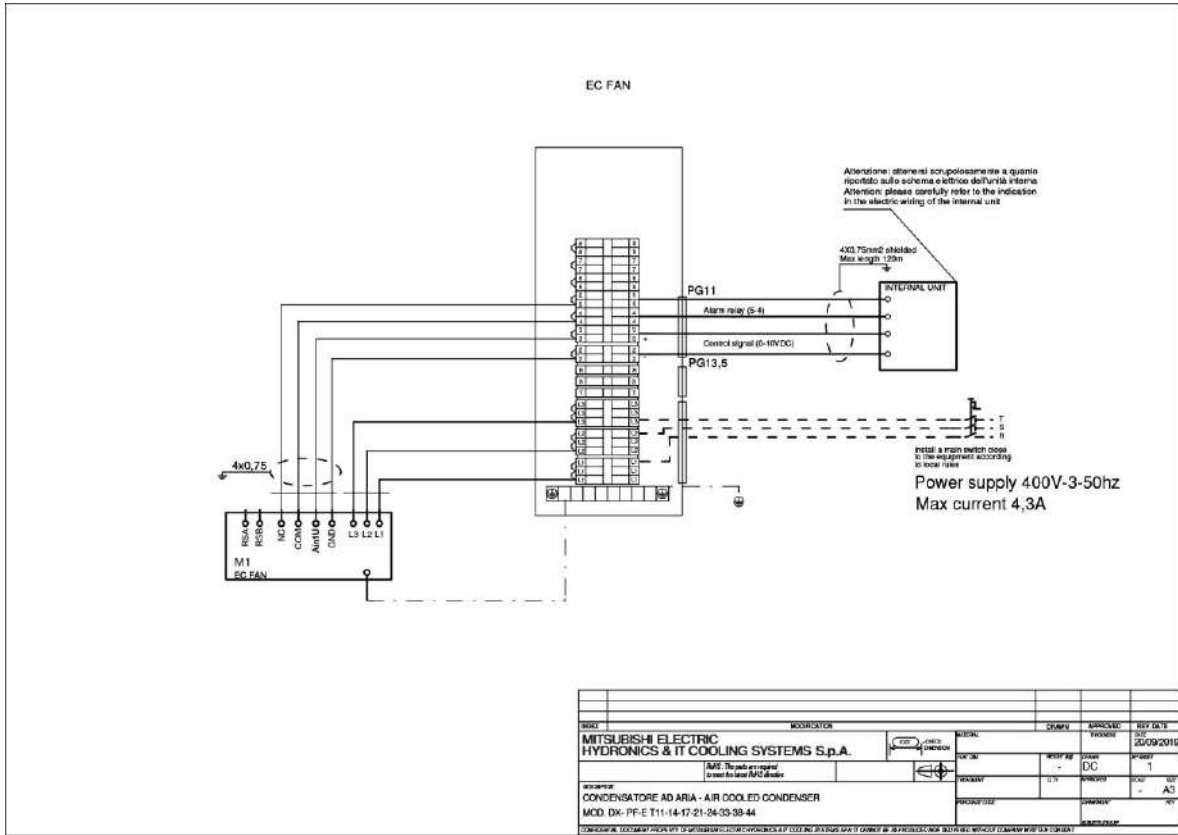
T 108, T 144



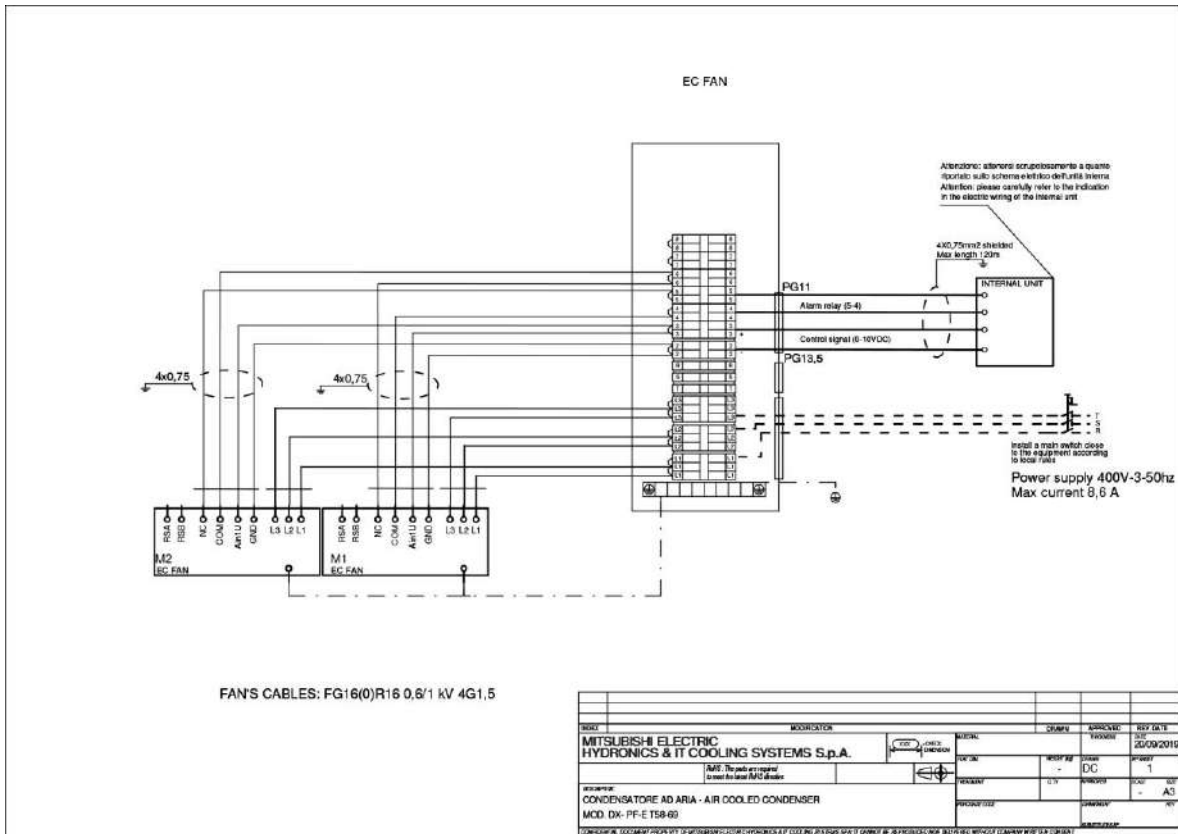
# BVE DX-PF-E

## WIRING DIAGRAMS

T 11, T 14, T 17, T 21, T 24, T 33, T 38, T 44



T 58, T 69

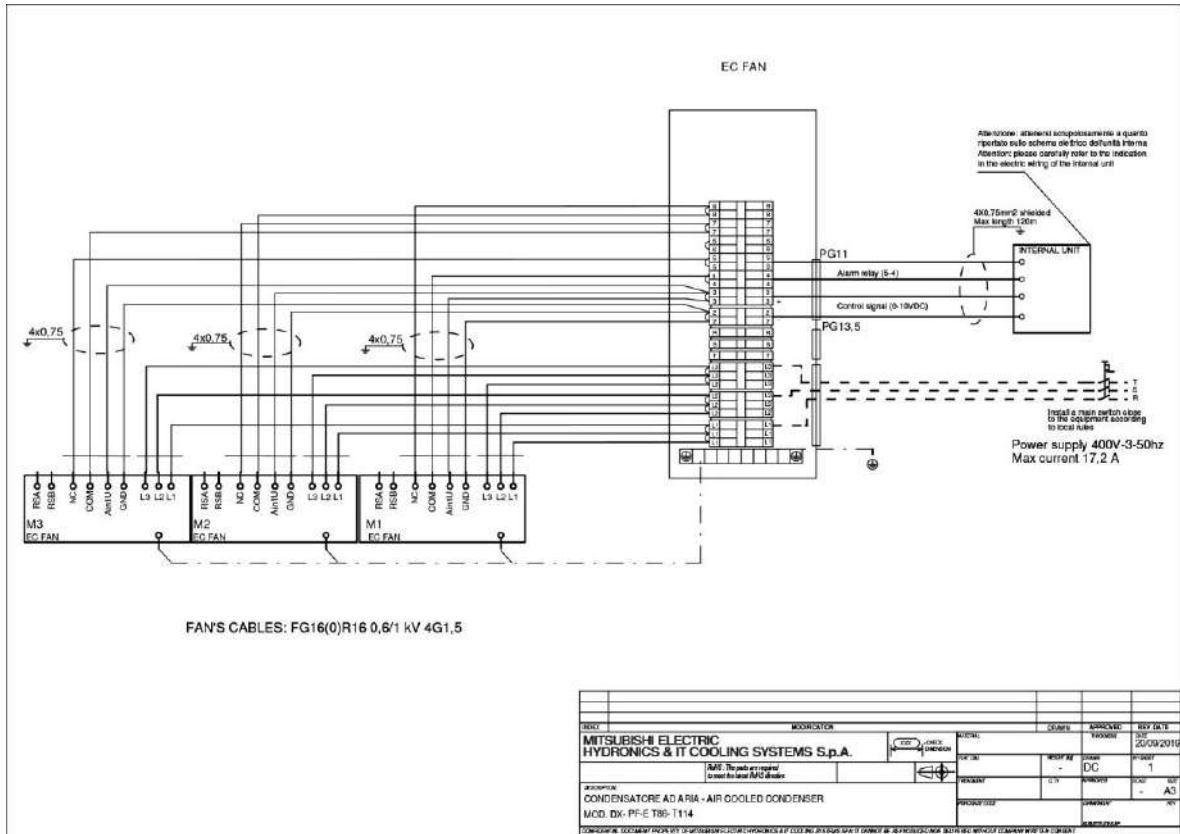




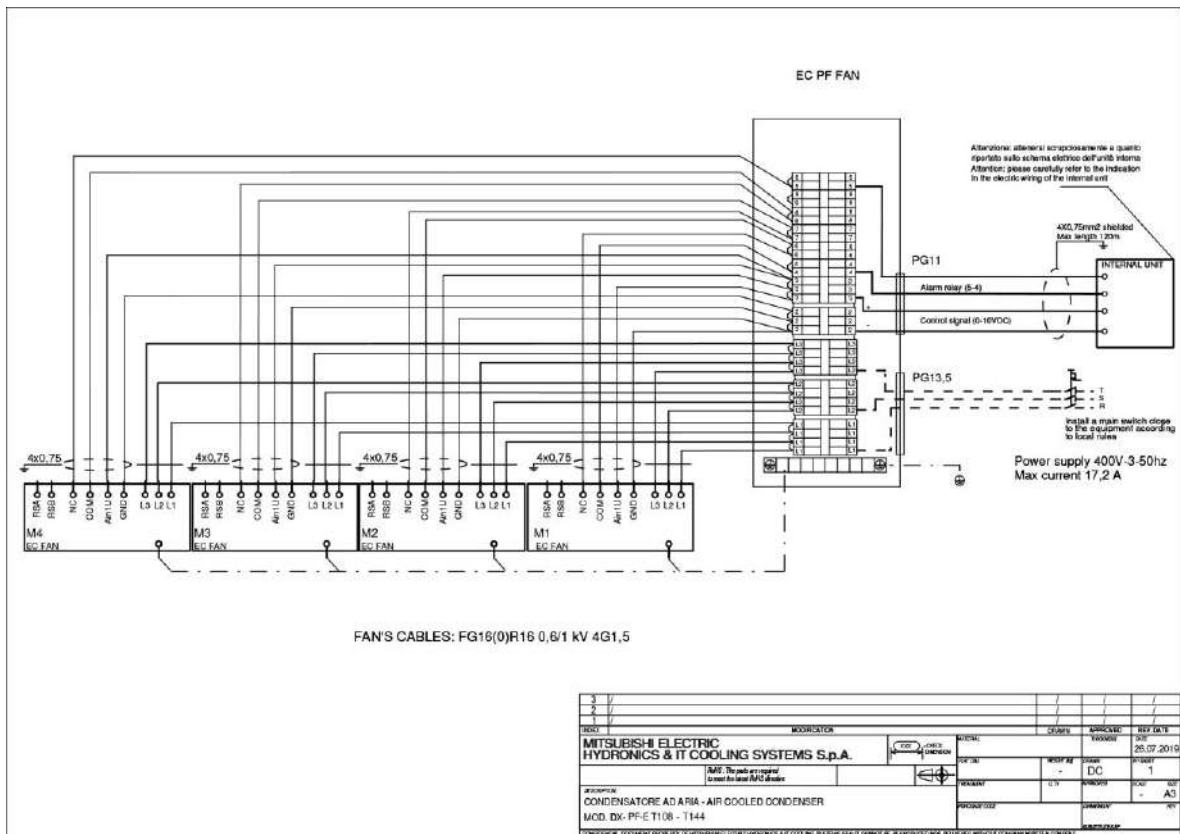
# BVE DX-PF-E

## WIRING DIAGRAM

T 86, T114



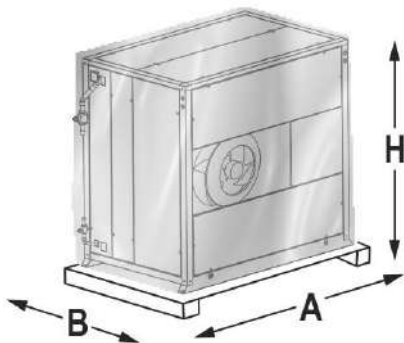
T 86, T114



## SHIPMENT: PACKING DIMENSIONS

Values referred to basic machine. The presence of some accessories increases the weight of machine. The machines are shipped on pallet and covered with shrink wrap.

### STANDARD PACKING



MODELLO		T11	T14	T17	T21	T24	T33	T38	T44	T58	T69	T86	T108	T114	T144
<b>A</b>	mm	990	990	990	990	1290	1290	1490	1490	1940	1940	2390	1940	2390	1940
<b>B</b>	mm	980	980	980	980	980	980	980	980	980	980	980	980	980	980
<b>H</b>	mm	1080	1080	1080	1080	1080	1080	1480	1480	1480	1480	1480	1980	1480	1980
<b>Peso</b>	kg	175	180	185	195	260	275	345	370	455	490	575	695	620	750











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Eco-Changes è il motto per l'ambiente del gruppo Mitsubishi Electric ed esprime la posizione dell'azienda relativamente alla gestione ambientale. Attraverso le nostre numerose attività di business diamo un contributo alla realizzazione di una società sostenibile.



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