



REVERSIBLE / CHILLER - HEAT PUMPS Installation Manual

- Chiller/Heat pumps
- Indoor unit
- Water condensation
- Scroll compressor
- High efficiency
- Suitable for geothermal applications

NXW

0500÷1650



Aermec
partecipa al Programma EUROVENT:
LCP/W/P/C - LCP/W/P/R
I prodotti interessati figurano sul sito
www.eurovent-certification.com



Dear customer,

Thank you for choosing AERMEC. It is the fruit of many years of experience and special design studies and has been made of the highest grade materials and with cutting edge technology.

In addition, all our products bear the EC mark indicating that they meet the requirements of the European Machine Directive regarding safety. The quality level is being constantly monitored, so AERMEC products are synonymous with Safety, Quality and Reliability.

The data may undergo modifications considered necessary for the improvement of the product, at any time and without the obligation for any notice thereof.

Thank you again.
AERMEC S.p.A

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DICHIARAZIONE DI CONFORMITÀ CE
EC DECLARATION OF CONFORMITY / DECLARATION DE CONFORMITE CE
KONFORMITÄTSEKTLÄRUNG EG / DECLARACIÓN DE CONFORMIDAD CE

NXW

MODEL	_____	[]
SERIAL NUMBER	_____	
DATE	_____	

Noi, firmatari della presente, dichiariamo sotto la nostra esclusiva responsabilità che l'insieme in oggetto così definito:
We, the undersigned, hereby declare under our own responsibility that the assembly in question, defined as follows:
Nous, Signataires du présent acte, déclarons sous notre responsabilité exclusive que le groupe cité à l'objet défini de la façon suivante:
Die Unterzeichner erklären unter eigener Verantwortung, dass die oben genannte Maschineneinheit, bestehend aus:
Nosotros, los abajo firmantes, declaramos bajo nuestra exclusiva responsabilidad, que el conjunto en cuestión, denominado:

Nome / Name / Nom / Name / Nombre	NXW
Tipo / Type / Type / Typ / Tipo	Chiller / heat pump / water to water
Modello / Model / Modèle / Model / Modelo	NXW 500 - 550 - 600 - 650 - 700 - 750 - 800 - 900 - 1000 - 1250 - 1400 - 1500 - 1650

A cui questa dichiarazione si riferisce è conforme a tutte le disposizioni pertinenti delle seguenti direttive:
To which this declaration refers, complies with all the provisions related to the following directives:
Auquel cette déclaration se réfère, est conforme à toutes les dispositions relatives des directives suivantes:
Das Gerät, auf welches sich diese Erklärung bezieht, entspricht allen Verordnungen im Zusammenhang mit den folgenden Richtlinien:
A la que esta declaración se refiere, es conforme con todas las disposiciones pertinentes de las siguientes directivas:

Direttiva Macchine: 2006/42/CE
Direttiva Compatibilità Elettromagnetica EMCD: 2014/30/UE
Direttiva PED in materia di attrezzature a pressione: 2014/68/UE

L'oggetto della dichiarazione di cui sopra è conforme alle pertinenti normative di armonizzazione dell'Unione:
The above-mentioned declaration complies with the harmonised European standards:
L'objet de la déclaration reportée ci-dessus est conforme aux normes d'harmonisation relatives de l'Union:
Der Gegenstand der genannten Erklärung entspricht den diesbezüglichen harmonisierten Normen der europäischen Gemeinschaft:
El objeto de la declaración de arriba es conforme con las normativas pertinentes de armonización de la Unión:

CEI EN 60204-1: 2006	CEI EN 61000-6-1: 2007	EN378-2: 2012
UNI EN ISO 12100: 2010	CEI EN 61000-6-3: 2007	UNI EN 12735-1: 2010
		UNI EN 14276-1: 2011

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.
This declaration of conformity has been released under the exclusive responsibility of the manufacturer.
La déclaration de conformité présente est délivrée sous la responsabilité exclusive du fabricant.
Diese Konformitätserklärung wurde unter der ausschließlichen Verantwortung des Herstellers ausgestellt.
Esta declaración de conformidad se ha otorgado bajo la responsabilidad exclusiva del fabricante.

La persona autorizzata a costituire il fascicolo tecnico è Luca Martin. Il prodotto, in accordo con la direttiva 97/23/CE, soddisfa la procedura di Garanzia qualità Totale (modulo H) con certificato n.06/270-QT3664 Rev.10 emesso dall'organismo notificato n.1131 CEC via Pisacane 46 Legnano (MI) - Italy.
The person authorised to compile the technical file is Luca Martin. The product, in agreement with Directive 97/23/CE, satisfies the Total quality Guarantee procedure (form H) with certificate no. 06/270-QT3664 Rev. 10 issued by the notified body n.1131 CEC via Pisacane 46 Legnano (MI) - Italy.
La personne autorisée à constituer le dossier technique est Luca Martin. Le produit, selon la directive 97/23/CE, respecte la procédure de Garantie de qualité Totale (module H) par le certificat n.06/270-QT3664 Rév. 10 émis par l'organisme notifié n.1131 CEC via Pisacane 46 Legnano (MI) - Italie.
Die bevollmächtigt, die technischen Unterlagen zusammenzustellen ist Luca Martin. In Übereinstimmung mit der Richtlinie 97/23/EG, erfüllt das Produkt die Anforderungen des Verfahrens der umfassenden Qualitätssicherung (Modul H), Zertifikat Nr.06/270-QT3664 Rev. 10, ausgestellt durch benannte Stelle Nr. 1131 CEC Via Pisacane 46, Legnano (MI) - Italy.
La persona facultada para elaborar el expediente técnico es Luca Martin. El producto, conforme a la directiva 97/23/CE, cumple con el procedimiento de Garantía de calidad total (módulo H) con certificado n. 06/270-QT3664 Rev. 10 emitido por el organismo autorizado n. 1131 CEC via Pisacane 46 Legnano (MI) - Italia.

1. GENERAL WARNINGS

NXW AERMEC is built according to recognised technical standards and safety regulations. They have been designed for air conditioning and hot water production and must be used for this purpose in accordance with their performance characteristics. The company shall not be contractually or non-contractually liable for any damage to people, animals or objects, for failures caused by errors during installation, adjustment and maintenance or incorrect use. All the uses not expressly indicated in this manual are not allowed.

1.1. STORAGE OF THE DOCUMENTATION

Deliver the following instructions plus all the complementary documentation to the system user, who shall be responsible for keeping the instructions so that they are always available when needed.

Read carefully this chapter; all the procedures must be carried out by qualified personnel according to the regulations in force in the different countries (M.D. 329/2004).

The unit must be installed in such a way as to make all maintenance and/or repair operations possible.

The warranty of the device does not in any case cover costs owing to ladder trucks, lifts or other lifting systems that may be required in order to carry out repairs under warranty.

Do not modify or tamper with the chiller as this may cause dangerous situations and the manufacturer shall not be liable for any damages. The warranty shall not be valid if the indications mentioned above are not observed.

1.2. SAFETY PRECAUTIONS AND INSTALLATION

- the chiller must be installed by an authorised and qualified technician, in compliance with the national legislation in force in the country of destination (MD 329/2004).
Aermec shall not be held responsible for any damage whatsoever resulting from the non-compliance with these instructions.
- Before starting any work, it is necessary TO READ CAREFULLY THE INSTRUCTIONS, AND TO PERFORM THE SAFETY CHECKS TO AVOID ANY RISKS. All the personnel in charge must be aware of the operations and the risks that may arise when all the unit installation operations begin.

2. PRODUCT IDENTIFICATION

NXW are identified by the following:

- PACKAGING LABEL
that includes the product identification data
- TECHNICAL PLATE
Placed on the right strut side
(see fig.1)

NB

If the identification plate, or any other means to identify the product, is tampered with, removed or missing, installation and maintenance operations are hampered

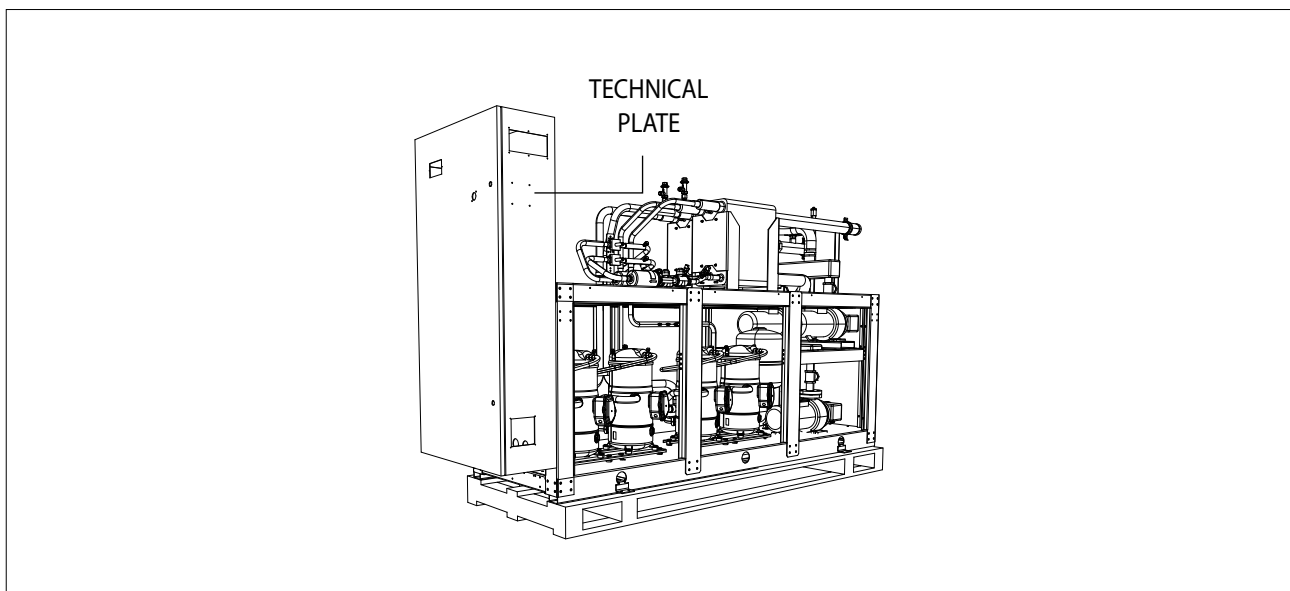


fig.1 technical plate

3. SELECTION AND PLACE OF INSTALLATION

Before installing the unit, decide with the customer the position in which it will be placed, pay attention to the following points:

- the support surface must be able to withstand the weight of the unit;
- The NXW series are for indoor use (protection grade IP40) and must be installed leaving the necessary technical spaces (see "Minimum technical spaces"). Observance of these spaces is to be considered indispensable in order to allow normal and extraordinary maintenance operations.
- The unit must be installed by a qualified technician in accordance with the national laws in force in the country of installation.

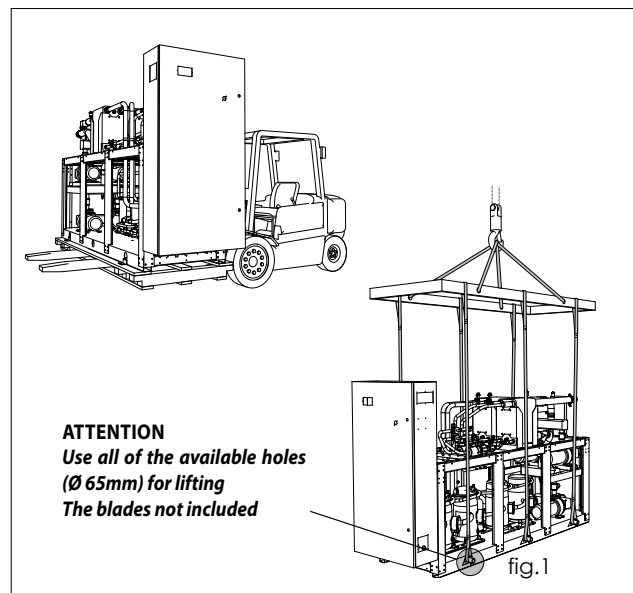
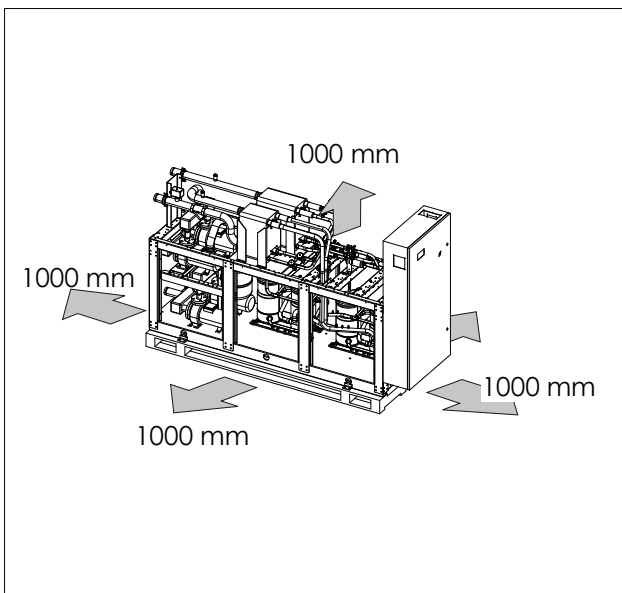
4. POSITIONING

The machine is delivered from the factory wrapped in estincoil. Before moving the unit, check the lifting capacity of the machines used. Once the packaging has been removed, the unit must be handled by qualified personnel with the suitable equipment. To transport the machine use either a forklift or lifting belts (see figure)

- The holes in the base to be used for lifting are indicated with yellow adhesives showing a black arrow. The blades (not included) which are adequately scaled must protrude from the base unit for a sufficient length so that the lifting straps can be tightened upwards without them encountering any interference.

- Make sure that the straps have been approved to support the weight of the unit, be careful that they are properly fixed to the upper frame and to the lifting blades, the safety closure must ensure that the straps do not work loose of their housing. The hooking point of the lifting frame must be on the vertical of the centre of gravity (see transport figure).
- In order to avoid damaging the unit with the cables, insert protection elements between them and the machine. It is absolutely forbidden to stand beneath the unit.
- Take into account that when the chiller is working, vibrations may be generated; it is therefore advisable to install anti-vibration supports (AVX accessories), fitting them to the holes in the base according to the assembly diagram.
- Fasten the unit by checking carefully that it is on the same level; check that easy access to the hydraulic and electric part is allowed.

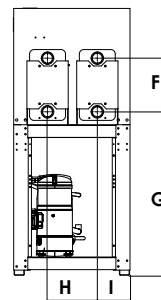
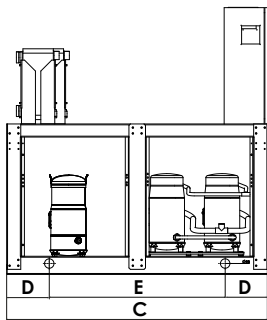
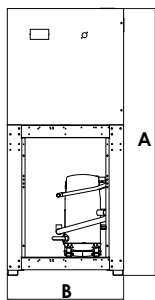
2.1. MINIMUM TECHNICAL SPACES (mm)



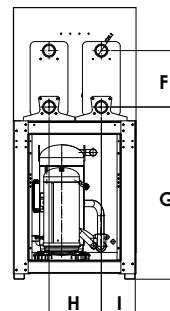
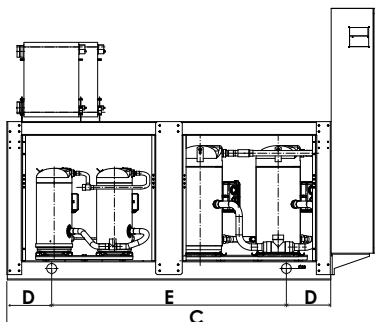
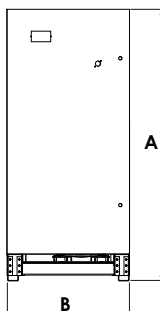
5. DIMENSIONAL TABLES

NXW Version "°" - H" Model "°H" Without pump

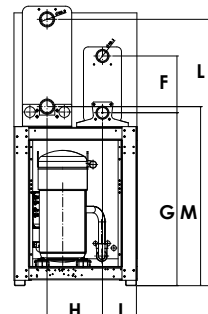
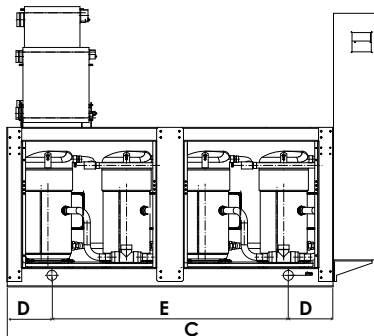
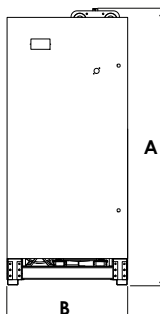
500 ÷ 700



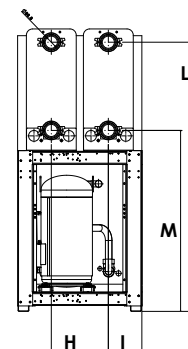
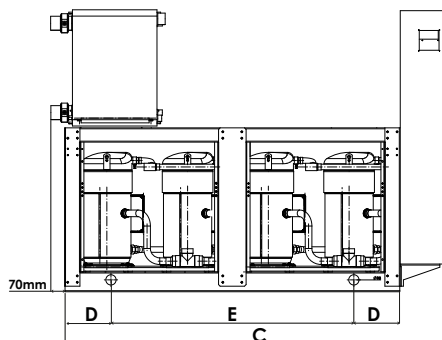
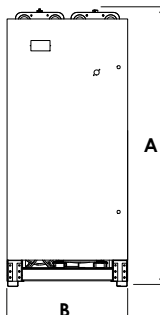
750 ÷ 800



900



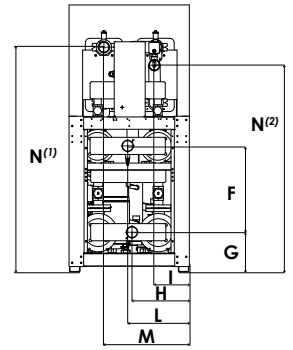
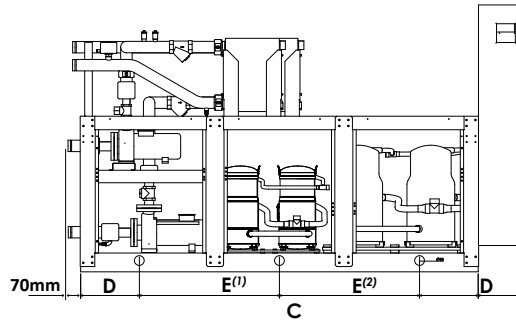
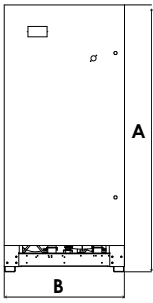
900H / 1000 ÷ 1650



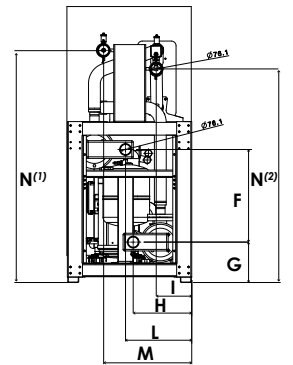
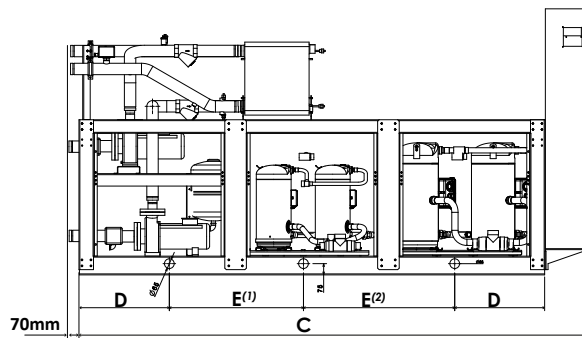
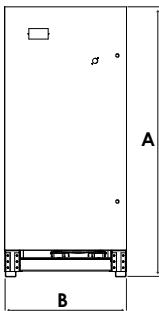
MODEL	A	B	C	D	E	F	G	H	I	L	M
500 ÷ 700	1835	800	1795	290	1216	369	1125	343	225	-	-
750 ÷ 800	1775	800	2420	290	1534	369	1125	342	225	-	-
900 °	1820	800	2420	290	1534	369	1125	361	225	1733	1168
900 H						-	-	367	216		
1000	1820	800	2420	290	1534	-	-	367	216	1733	1168
1250											
1400											
1500											
1650											

NXW Versione "0 - H" MODEL "10" With pump

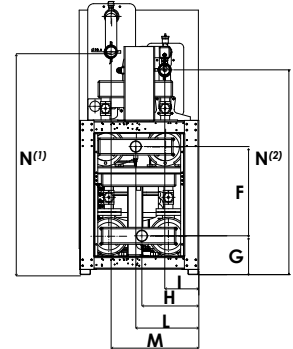
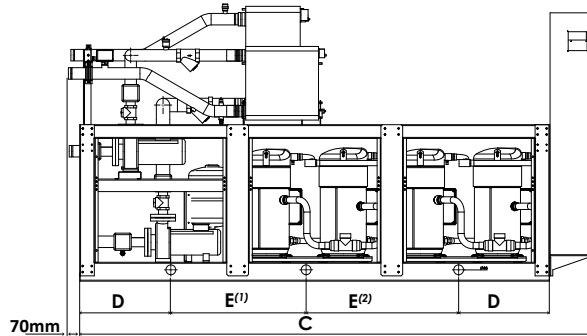
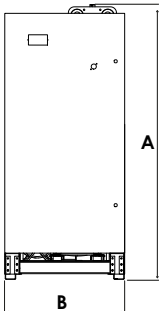
500 ÷ 700



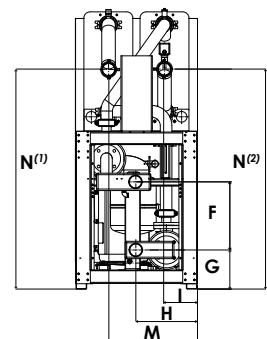
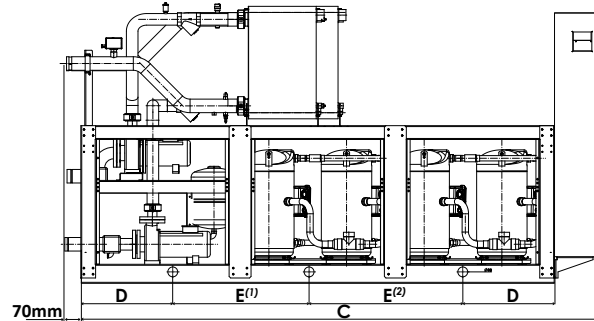
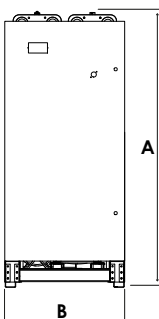
750 ÷ 800



900



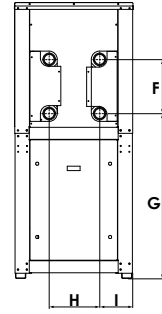
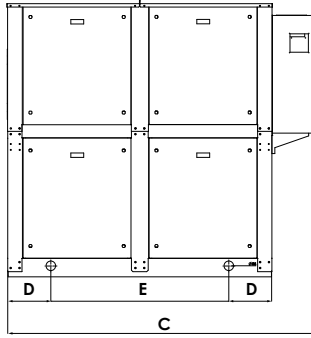
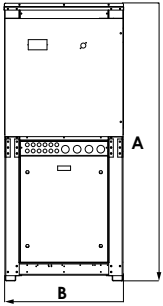
900H/1000 ÷ 1650



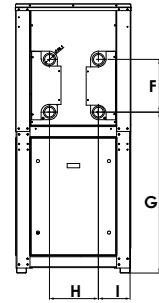
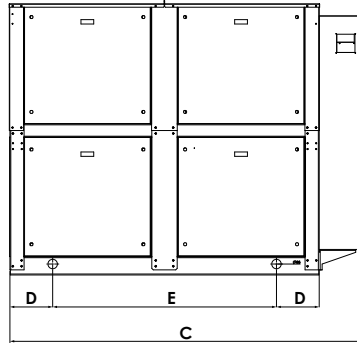
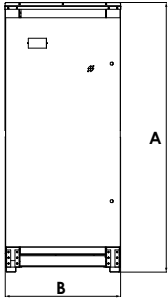
MODEL	A	B	C	D	E ⁽¹⁾	E ⁽²⁾	F	G	H	I	L	M	N ⁽¹⁾	N ⁽²⁾					
500 ÷ 700	1775	800	2950	390	930	930	838	260	380	230	410	568	1495	1374					
750 ÷ 800	1775	800	3410	600	895	1009	596	260	377	230	426	568	1495	1374					
900 °	1820	800	3410	600	895	1009	599	261	380	230	-	588	1495	1374					
900 H							447	253	406	215	404	581	1444	1444					
1000																			
1250																			
1400																			
1500																			
1650																			

NXW Version^{oo} - H" Model Low Noise "L" Without pump

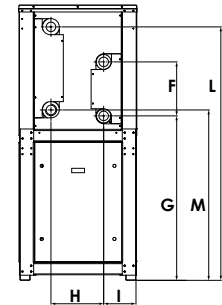
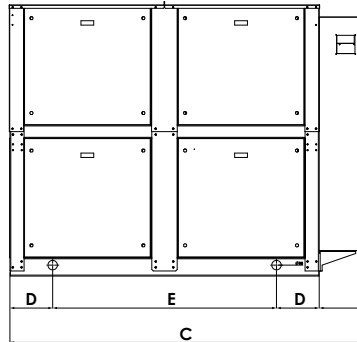
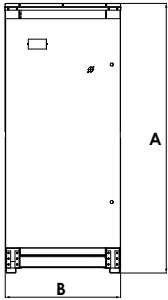
500 ÷ 700



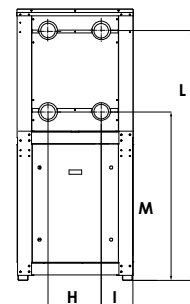
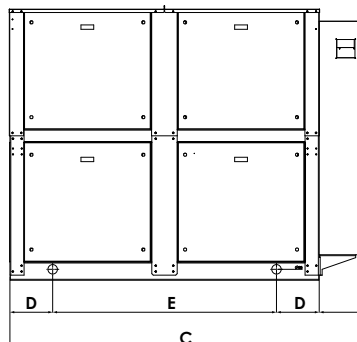
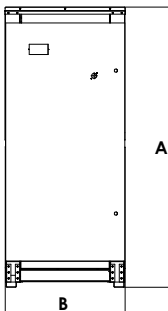
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900



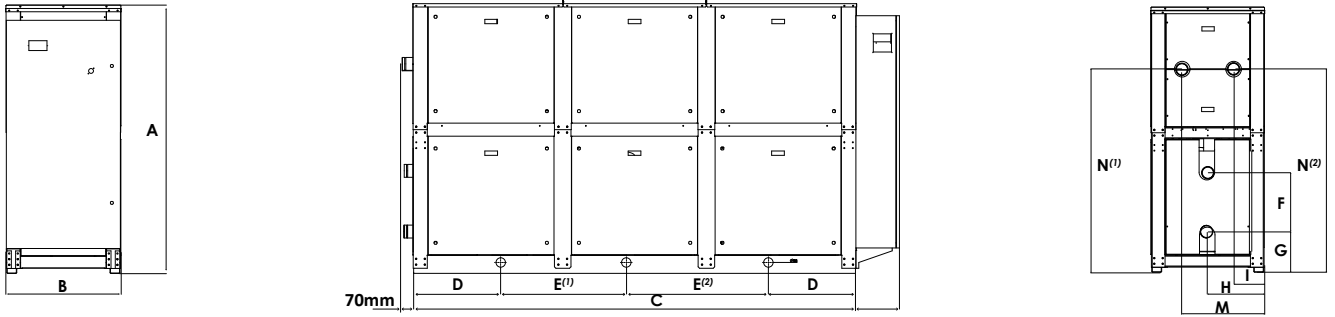
1000 ÷ 1650



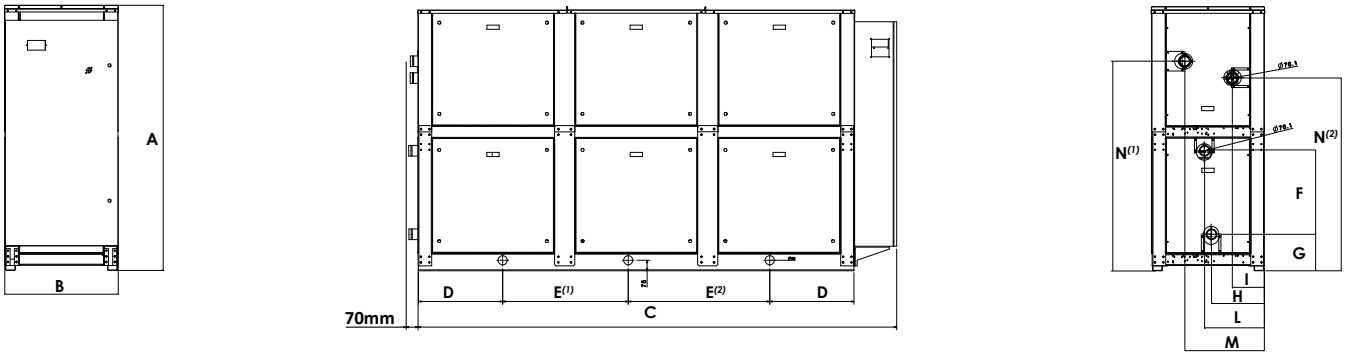
MODEL	A	B	C	D	E	F	G	H	I	L	M
500 ÷ 700	1885	800	2090	290	1216	369	1125	343	225	-	-
750 ÷ 800	1885	800	2420	290	1534	369	1125	342	222	-	-
900 °	1885	800	2420	290	1534	369	1125	360	222	1733	1168
900 H						-	-	369	220		
1000	1885	800	2420	290	1534	-	-	369	220	1733	1168
1250											
1400											
1500											
1650											

NXW Version^o - H^o Model Low Noise "L" With pump

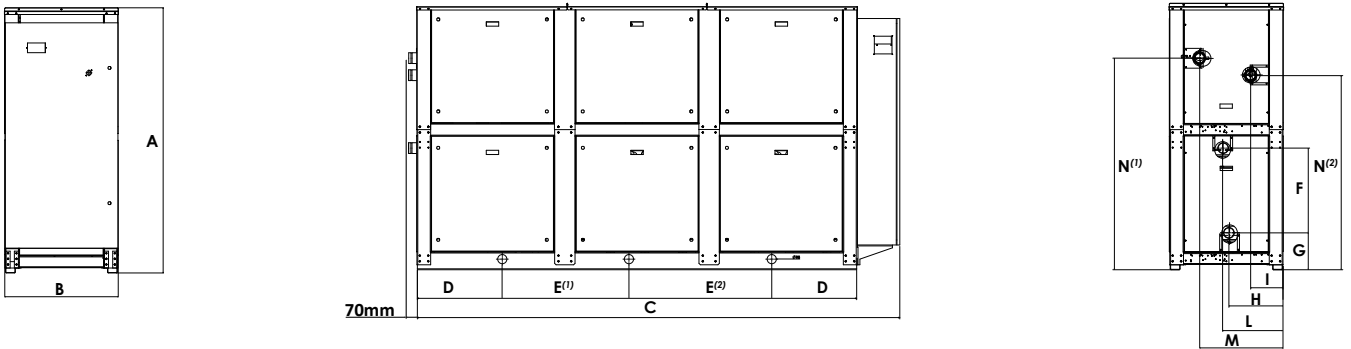
500 ÷ 700



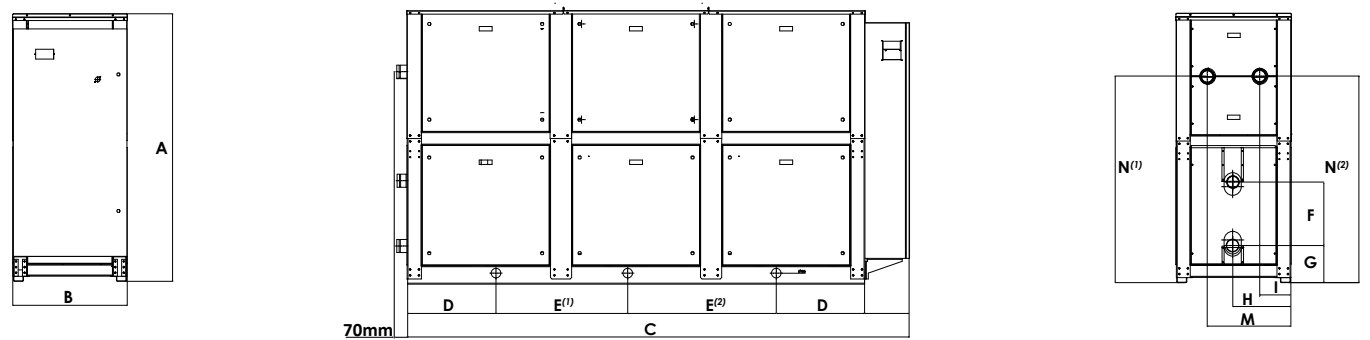
750 ÷ 800



900



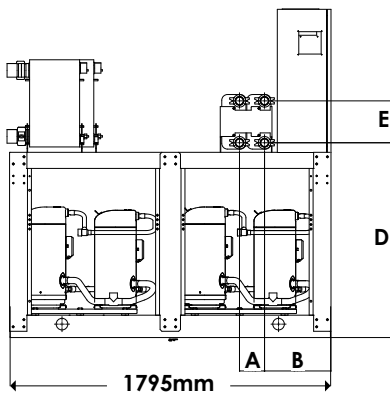
900H/1000 ÷ 1650



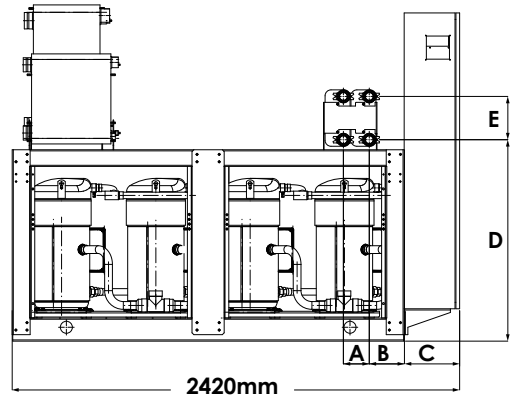
MODEL	A	B	C	D	E ⁽¹⁾	E ⁽²⁾	F	G	H	I	L	M	N ⁽¹⁾	N ⁽²⁾
500 ÷ 700	1885	800	2950	390	930	930	838	260	380	230	410	568	1495	1374
750 ÷ 800	1885	800	3410	600	895	1009	596	260	377	230	426	568	1495	1374
900 °	1885	800	3410	600	895	1009	599	261	380	230	-	588	1495	1374
900 H							447	253	406	215	404	581	1444	1444
1000	1885	800	3410	600	895	1009	447	253	406	215	404	581	1444	
1250														
1400														
1500														
1650														

NXW Version "°/L - H/L" Model "°" With Desuperheater "D" Without pump

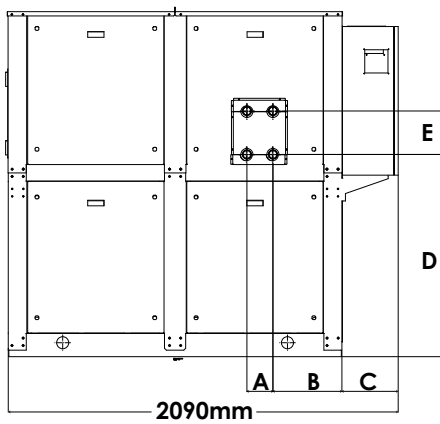
500 ÷ 700



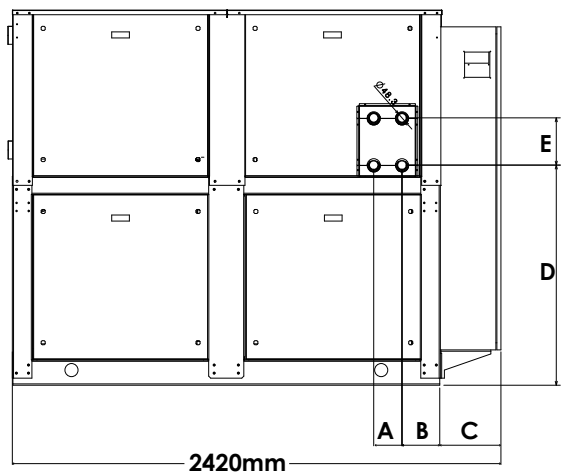
750 ÷ 1650



500L ÷ 700L



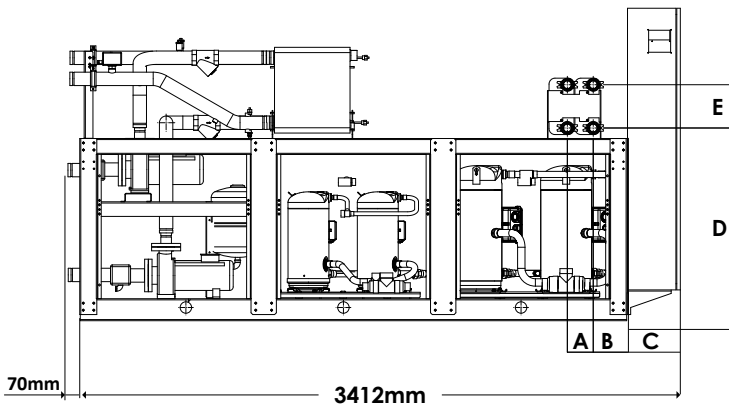
750L ÷ 1650L



MODEL	VERS.	Without pump				
		A	B	C	D	E
500 ÷ 700	° - H	140	371	-	1088	234
	L - HL			300		
750 ÷ 1650	° - H	140	186	300	1089	234
	L - HL					

NXW Version "°/L - H/L" Model "°" With Desuperheater "D" With pump

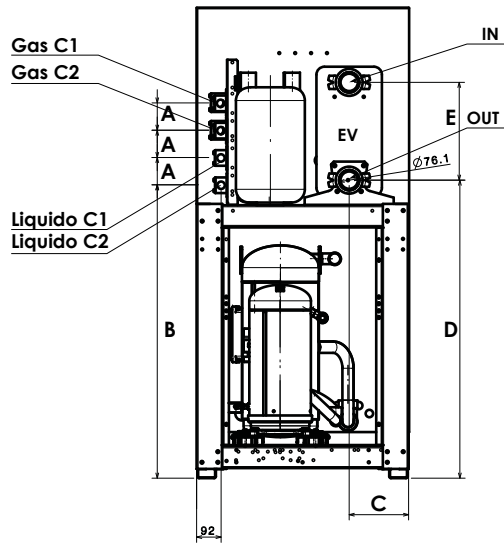
750 ÷ 1650



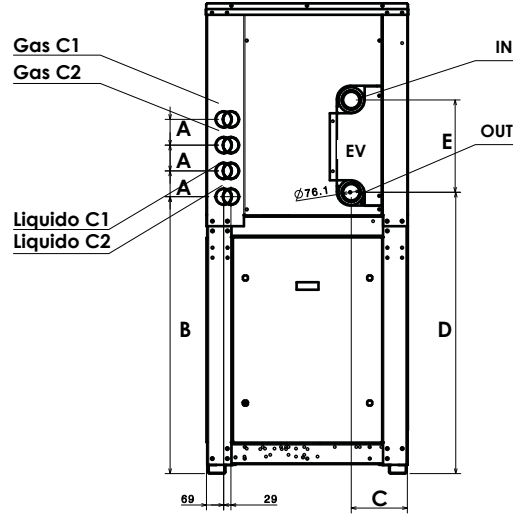
MODEL	VERS.	With pump				
		A	B	C	D	E
750 ÷ 1650	°/L - H/HL	140	191	300	1090	234

NXW Version "E" Evaporating unit without pump

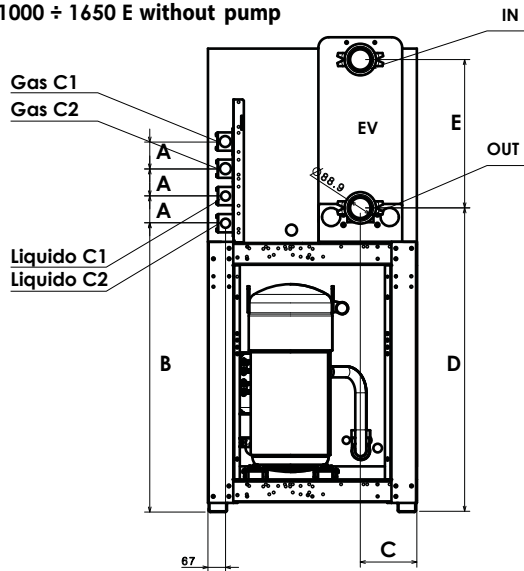
500 ÷ 900 E without pump



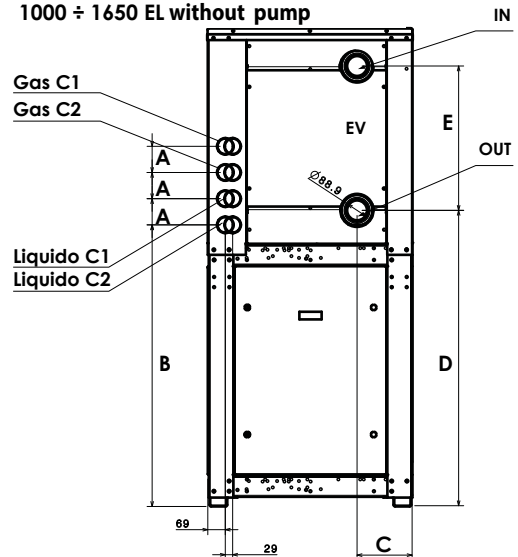
500 ÷ 900 EL without pump



1000 ÷ 1650 E without pump



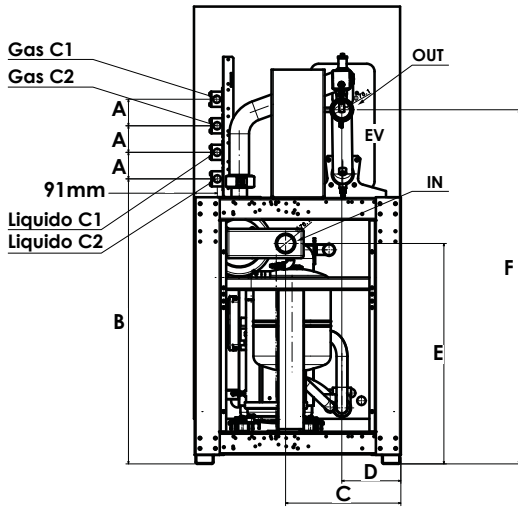
1000 ÷ 1650 EL without pump



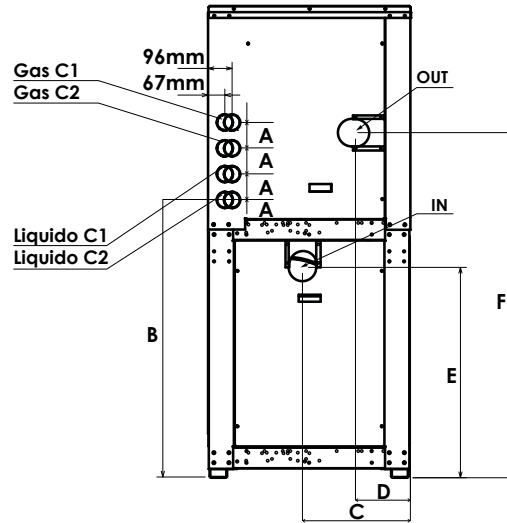
MODEL	VERS.	without pump				
		A	B	C	D	E
500 ÷ 900	E - EL	103	1107	224	1125	369
1000 ÷ 1650	E - EL			217	1162	568

NXW Version "E" Evaporating unit with pump

500 ÷ 1650 E con gruppo idronico



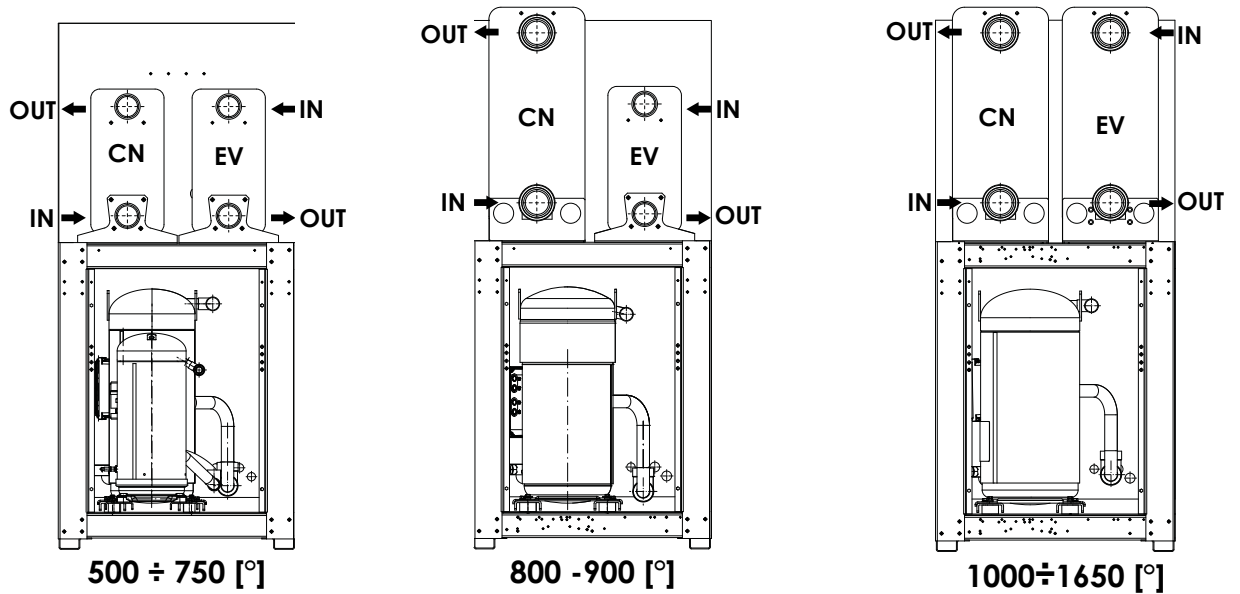
500 ÷ 1650 EL con gruppo idronico



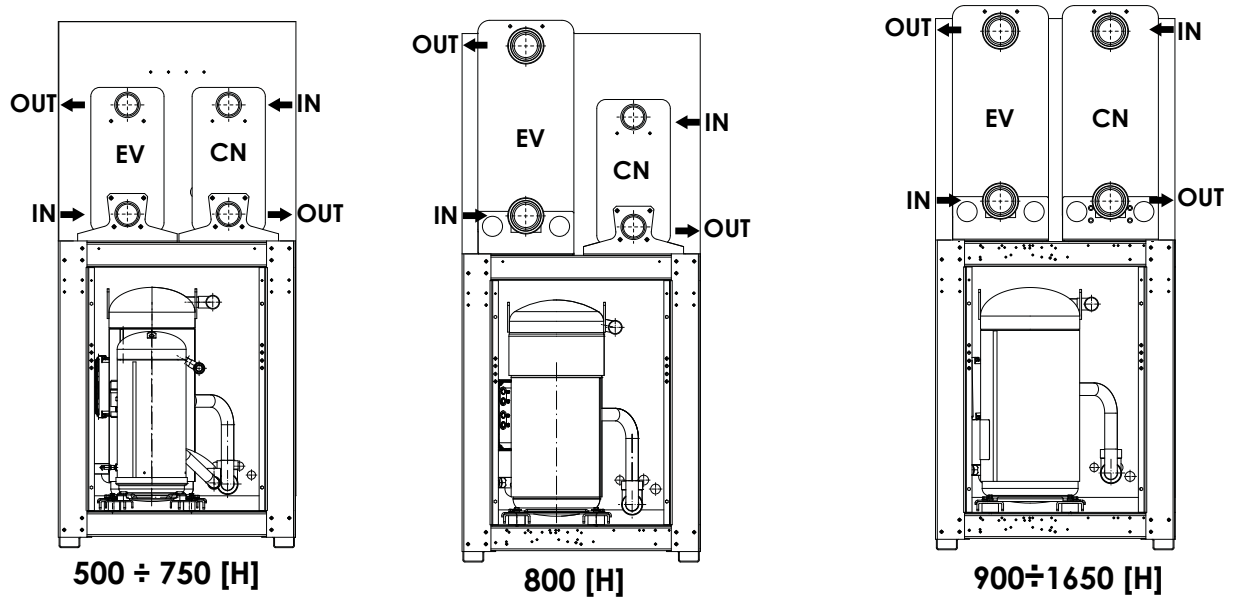
MODEL	VERS.	With pump					
		A	B	C	D	E	F
500 ÷ 1650	E - EL	103	1110	447	229	855	1375

6. HYDRAULIC CONNECTION

NXW - Model "0" Water Side Inversion

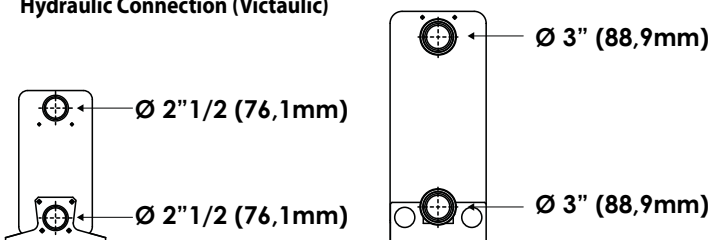


NXW - Model "H" With Gas Cycle Inversion (Cooling Mode)

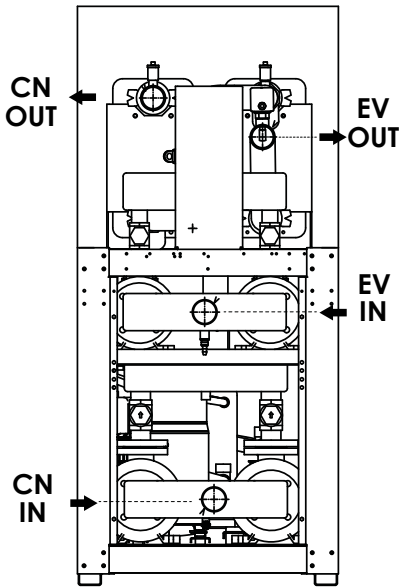


Key
 EV = Evaporator
 CN = Condenser

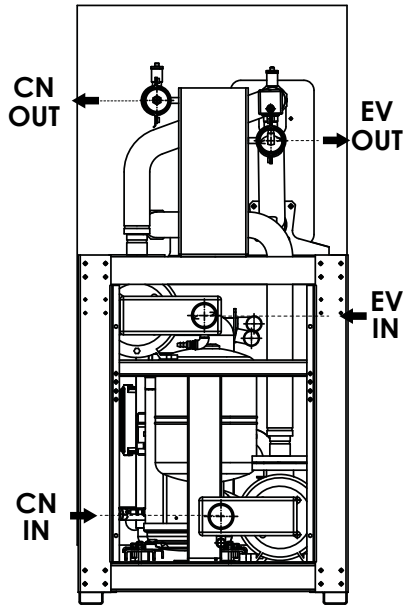
Hydraulic Connection (Victaulic)



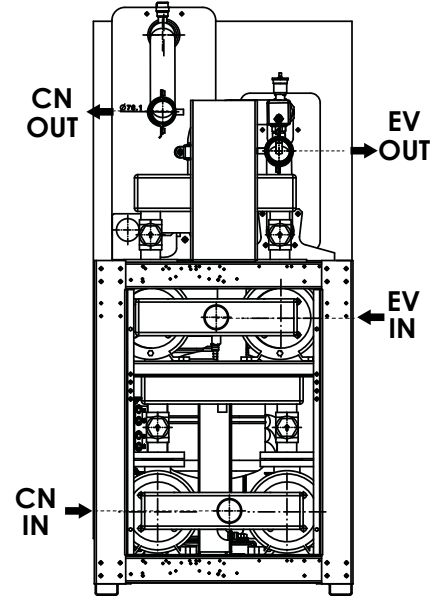
NXW - Model "00" Water Side Inversion with pump



500 ÷ 700 [°]



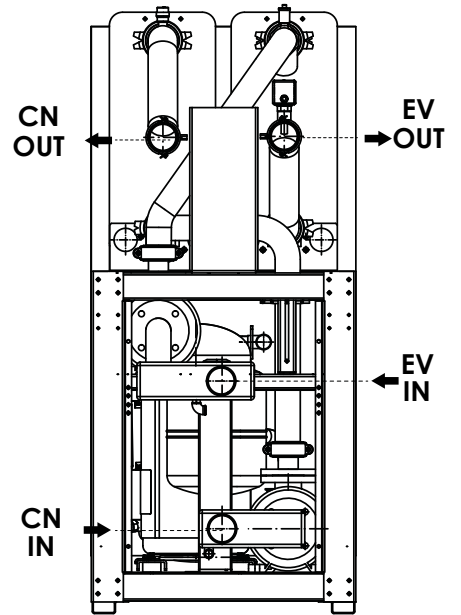
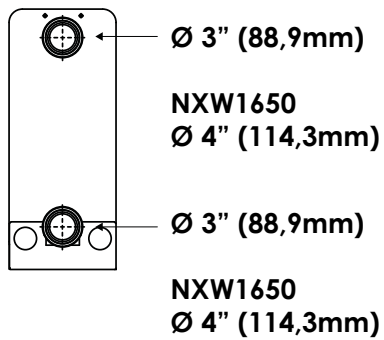
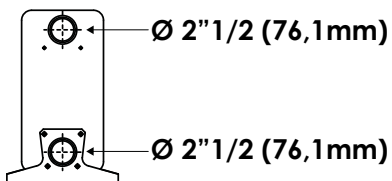
750 ÷ 800 [°]



900 [°]

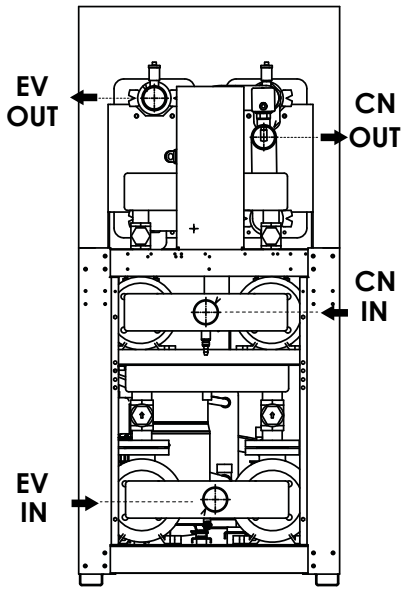
Key
 EV = Evaporator
 CN = Condenser

Hydraulic Connection (Victaulic)

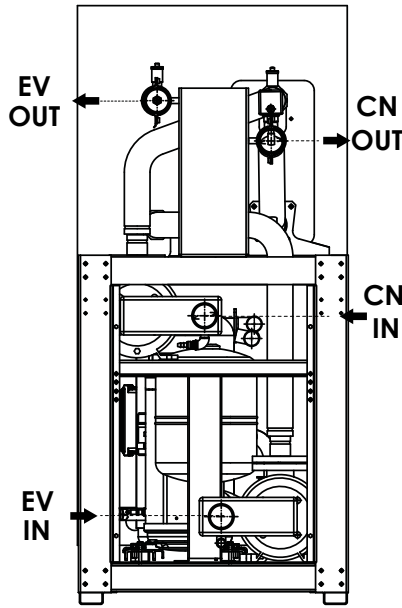


1000 ÷ 1650 [°]

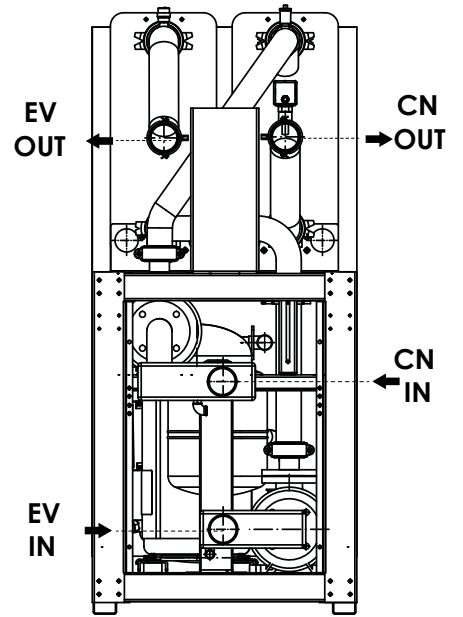
NXW - Model "H" With Gas Cycle Inversion (Cooling Mode) -with pump



500 ÷ 700 [H]



750 ÷ 800 [H]

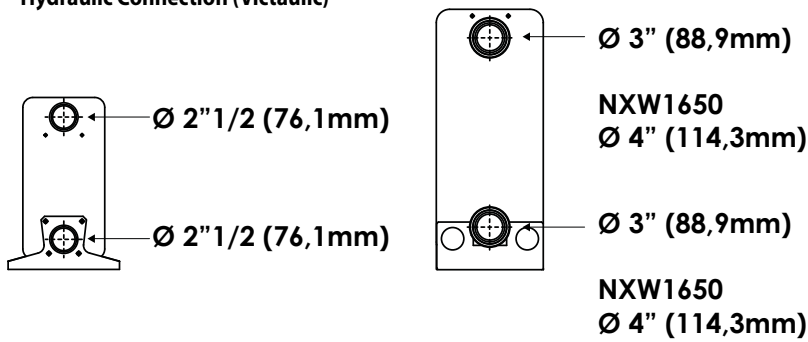


900 ÷ 1650 [H]

Key

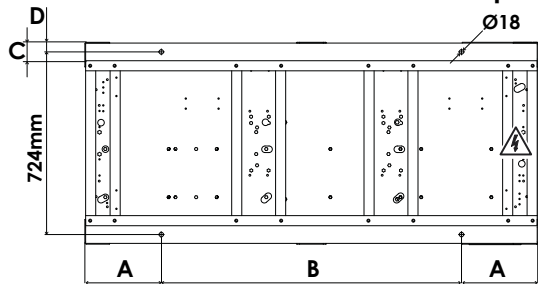
EV = Evaporator
CN = Condenser

Hydraulic Connection (Victaulic)

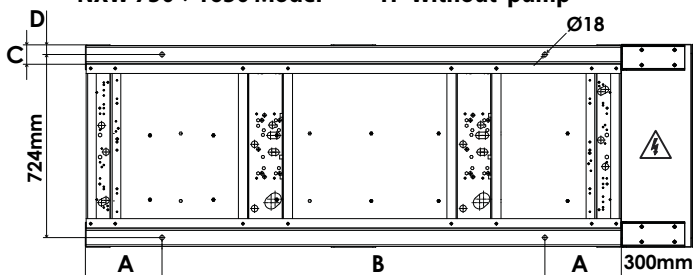


7. ANTIVIBRANT MOUTH POSITION(AVX)

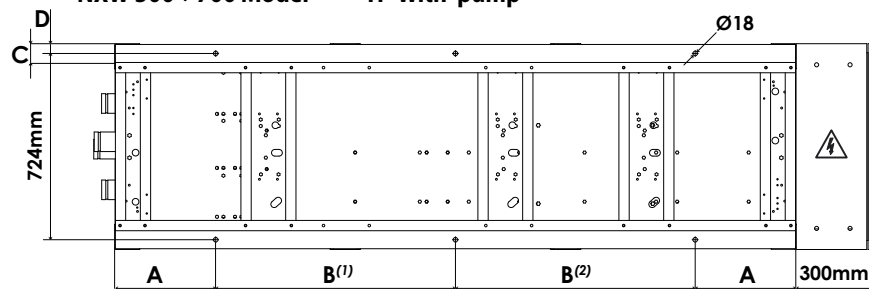
NXW 500 ÷ 700 Model "00" - "H" Without pump



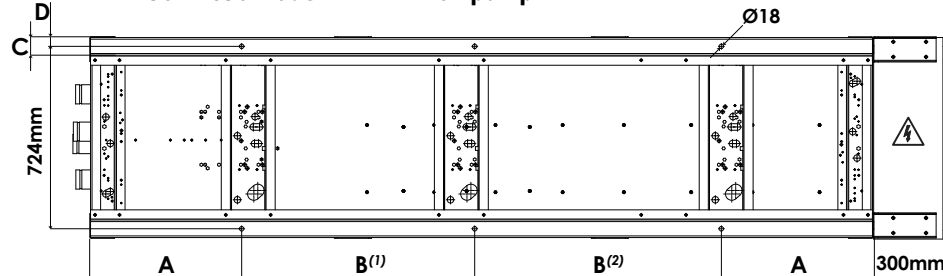
NXW 750 ÷ 1650 Model "00" - "H" Without pump



NXW 500 ÷ 700 Model "00" - "H" With pump



NXW 750 ÷ 1650 Model "00" - "H" With pump



MODEL	VERS.	Without pump				With pump				
		A	B	C	D	A	B ⁽¹⁾	B ⁽²⁾	C	D
500 ÷ 700	° - H	300	1190	70	35	390	932	932	70	35
750 ÷ 1650	° - H	300	1514	70	35	600	925	979	925	35

8. HYDRAULIC CIRCUIT

The NXW standard version is comprised of a circuit including:

- **Evaporator (plate type exchanger)**
- **Condenser (plate type exchanger)**
- **Water inlet probe SIW**
- **Water outlet probe SUW**

NB:

Water filter versions standard: NOT INCLUDED

the weld pipe is supplied as standard with the VICTAULIC connection is included

The NXW version with pumping group also includes:

- **Circulation pump**
- **Water filter**
- **Drain valve**
- **Flow switch**
- **Water outlet/inlet probe**
- **Expansion tank (25 litres)**

8.1. EXTERNAL HYDRAULIC CIRCUIT RECOMMENDED

The selection and installation of components outside the NXW should be carried out by the installer, who should work according to the technical code of practice and in compliance with the legislation in force in the country of destination (MD 329/2004).

Before connecting the pipes make sure that they do not contain stones, sand, rust, slag or any foreign bodies that may damage the system. It is necessary to make a by-pass to the unit to be able to carry out the cleaning of the pipes without having to disconnect the machine. The connection pipes must be properly supported so as not to burden the unit with their weight.

On the water circuit, it is advisable to install the following instruments, if not foreseen in the version you have:

1. Two pressure gauges of suitable size (input and output section).
2. Two anti-vibration couplings (input and output section).
3. Two shut-off valves (normal input section, output section calibrating valve).
4. Two thermometers (input and output section).
5. Expansion tanks
6. pump
7. Accumulation tank
8. Flow switch
9. Safety valve
10. Charging unit
11. Water filter
11. *The filter protects only the exchangers (in case of particularly dirty water, we recommend an external filter to protect the pumps)*

Compulsory hydraulic circuit components (in case of an NXW provided without the hydronic kit (evaporator side, condenser side):

- At the inlet or each plate heat exchanger the installation of a flow switch (not included) is compulsory at the penalty of invalidating the warranty.
- Installation of the mechanical filter is compulsory at the inlet of each plate heat exchanger at the penalty of invalidating the warranty. The filter must have filtering holes with a diameter not greater than one millimetre and must be kept clean, therefore the cleaning must be verified after installation of the unit and the condition must be checked periodically.

It is necessary, that the water flow rate to the chiller unit complies with the values reported in the performance tables.

The systems loaded with anti-freeze or specific regulations, need the water backflow system.

Special supply/recovery water, is carried out with appropriate treatment systems.

8.2. SYSTEM LOAD

- Before starting the load, check that the system drain tap is closed.
- Open all the drain valves of the system and of the related terminals.
- Open the shut-off devices of the system.
- Start the filling by slowly opening the water system load cock placed outside the machine.
- When water begins to flow from the terminal vent valves, close them and continue loading up to read on the gauge the value of 1.5 bar.

The system is loaded at a pressure between 1 and 2 bar.

It is advisable to repeat this operation once the machine has worked for some hours and to periodically check the system pressure, restoring it if drops below 1 bar.

Check the hydraulic seal of the joints.

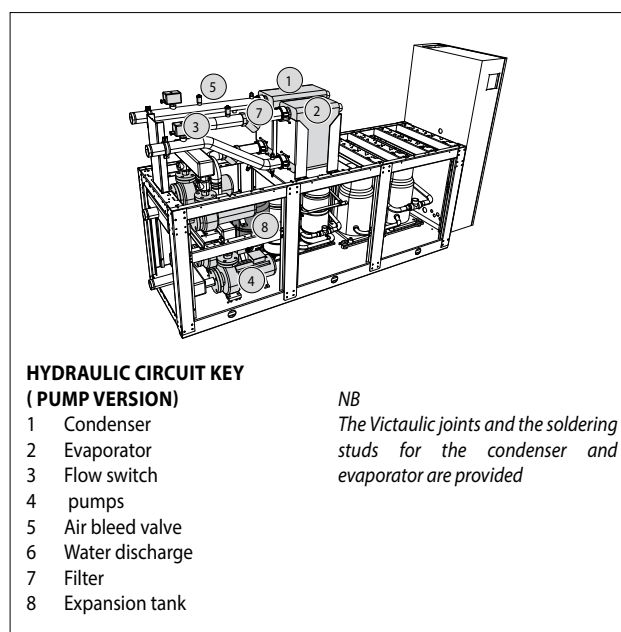
8.3. EMPTYING THE SYSTEM

- Before starting to drain the system, turn "off" the unit
- Check that the water system load/restore tap is closed
- Open the drain tap outside the machine and all the vent valves of the system and the corresponding terminals.

If the system uses glycol, this liquid should not be drained to the environment because it is a pollutant. It must be collected and, if possible, reused.

WATER FEATURES

Water features	
System: Chiller with plate heat exchanger	
PH	7,5-9
Electric conductivity	100-500µS/cm
Total hardness	4,5-8,5 dH
Temperature	< 65°C
Oxygen content	< 0,1 ppm
Max. glycol amount	0,5
Phosphates (PO4)	< 2ppm
Manganese (Mn)	< 0,05 ppm
Iron (Fe)	< 0,3 ppm
Alkalinity (HCO3)	70 - 300 ppm
Chloride ions (Cl-)	< 50 ppm
Sulphate ions (SO4)	< 50 ppm
Sulphide ion (S)	none
Ammonium ions (NH4)	none
Silica (SiO2)	< 30ppm



HYDRAULIC CIRCUIT KEY (PUMP VERSION)

- 1 Condenser
- 2 Evaporator
- 3 Flow switch
- 4 pumps
- 5 Air bleed valve
- 6 Water discharge
- 7 Filter
- 8 Expansion tank

NB

The Victaulic joints and the soldering studs for the condenser and evaporator are provided

Example of NXW Version [H]

9. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS

9.1. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION ° - SIZE FROM 0500 TO 0750)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500°	without pump	578	410	832	27%	28%	22%	23%	319
	1 pump	680	403	914	33%	33%	17%	17%	320
	2 pumps	727	400	985	32%	32%	18%	18%	
	3 pumps	774	398	1047	31%	30%	19%	19%	
	4 pumps	822	396	1169	29%	28%	22%	21%	309
NXW0550°	without pump	582	410	829	27%	28%	22%	23%	319
	1 pump	684	403	911	33%	33%	17%	17%	320
	2 pumps	732	401	982	32%	32%	18%	18%	
	3 pumps	779	398	1043	31%	31%	19%	19%	
	4 pumps	826	396	1165	29%	28%	22%	21%	309
NXW0600°	without pump	682	414	900	25%	27%	23%	25%	301
	1 pump	784	408	962	32%	33%	17%	18%	320
	2 pumps	831	405	1021	31%	31%	19%	19%	309
	3 pumps	878	403	1074	30%	30%	20%	20%	
	4 pumps	926	401	1181	28%	28%	22%	22%	310
NXW0650°	without pump	690	415	899	25%	27%	23%	25%	301
	1 pump	796	408	965	31%	33%	17%	18%	309
	2 pumps	847	406	1027	31%	31%	19%	19%	
	3 pumps	897	403	1082	30%	30%	20%	20%	
	4 pumps	948	401	1189	28%	28%	22%	22%	310
NXW0700°	without pump	727	417	915	24%	26%	24%	26%	301
	1 pump	833	411	1043	30%	32%	19%	20%	309
	2 pumps	883	408	1097	29%	30%	20%	21%	
	3 pumps	934	405	1146	28%	29%	21%	22%	
	4 pumps	984	403	1190	28%	28%	22%	22%	310
NXW0750°	without pump	882	419	1082	24%	26%	24%	26%	303
	1 pump	997	413	1212	29%	31%	19%	21%	312
	2 pumps	1058	410	1273	28%	30%	21%	22%	
	3 pumps	1118	408	1327	27%	28%	22%	22%	
	4 pumps	1159	406	1360	27%	28%	22%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.2. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION ° - SIZES FROM 0800 TO 1650)

MODEL		EMPTY			PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
		Weight	CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0800°	without pump	989	421	1224	23%	26%	24%	27%	310
	1 pump	1105	415	1244	28%	30%	20%	21%	651
	2 pumps	1165	412	1297	28%	29%	21%	22%	
	3 pumps	1226	410	1345	27%	28%	22%	23%	
	4 pumps	1286	407	1389	26%	27%	23%	24%	
NXW0900°	without pump	1180	427	1217	23%	27%	23%	27%	314
	1 pump	1296	421	1336	29%	32%	19%	21%	665
	2 pumps	1356	419	1391	28%	31%	20%	21%	
	3 pumps	1417	416	1441	28%	30%	20%	22%	
	4 pumps	1477	414	1487	27%	29%	21%	23%	
NXW1000°	without pump	1417	428	1309	21%	25%	25%	29%	316
	1 pump	1558	422	1421	27%	31%	20%	22%	653
	2 pumps	1644	419	1481	27%	30%	21%	23%	
	3 pumps	1730	416	1535	26%	29%	22%	23%	
	4 pumps	1765	415	1555	26%	28%	22%	24%	
NXW1250°	without pump	1461	426	1304	22%	25%	25%	29%	316
	1 pump	1602	421	1414	28%	31%	20%	22%	654
	2 pumps	1688	418	1472	27%	30%	21%	23%	
	3 pumps	1774	415	1525	27%	29%	22%	23%	
	4 pumps	1809	414	1546	26%	28%	22%	24%	
NXW1400°	without pump	1539	425	1326	21%	24%	26%	29%	315
	1 pump	1680	420	1429	28%	30%	20%	22%	654
	2 pumps	1765	417	1485	27%	29%	21%	23%	
	3 pumps	1851	415	1535	26%	28%	22%	23%	
	4 pumps	1886	414	1554	26%	28%	22%	24%	
NXW1500°	without pump	1539	425	1326	21%	24%	26%	29%	315
	1 pump	1680	420	1429	28%	30%	20%	22%	654
	2 pumps	1765	417	1485	27%	29%	21%	23%	
	3 pumps	1851	415	1535	26%	28%	22%	23%	
	4 pumps	1886	414	1554	26%	28%	22%	24%	
NXW1650°	without pump	1539	425	1326	21%	24%	26%	29%	315
	1 pump	1680	420	1429	28%	30%	20%	22%	654
	2 pumps	1765	417	1485	27%	29%	21%	23%	
	3 pumps	1851	415	1535	26%	28%	22%	23%	
	4 pumps	1886	414	1554	26%	28%	22%	24%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.3. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION H - SIZES FROM 0500 TO 0750)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500H	without pump	628	401	849	27%	27%	23%	23%	319
	1 pump	730	396	923	33%	33%	17%	17%	320
	2 pumps	778	394	989	32%	31%	19%	18%	
	3 pumps	825	392	1047	31%	30%	20%	19%	309
	4 pumps	872	390	1098	30%	29%	21%	20%	
NXW0550H	without pump	633	401	846	27%	27%	23%	23%	319
	1 pump	735	396	920	33%	33%	17%	17%	320
	2 pumps	782	394	985	32%	31%	19%	18%	
	3 pumps	829	392	1043	31%	30%	20%	19%	309
	4 pumps	877	391	1095	30%	29%	21%	20%	
NXW0600H	without pump	734	406	911	25%	26%	24%	25%	301
	1 pump	836	401	968	32%	32%	18%	18%	320
	2 pumps	884	399	1023	31%	31%	19%	19%	309
	3 pumps	931	397	1073	30%	30%	20%	20%	
	4 pumps	978	395	1118	30%	29%	21%	20%	312
NXW0650H	without pump	743	407	910	25%	26%	24%	25%	301
	1 pump	848	401	970	32%	32%	18%	18%	309
	2 pumps	899	399	1028	31%	31%	19%	19%	
	3 pumps	950	397	1080	30%	30%	20%	20%	311
	4 pumps	1000	396	1127	29%	29%	21%	21%	312
NXW0700H	without pump	791	406	932	24%	25%	25%	26%	302
	1 pump	896	401	1048	31%	31%	19%	19%	309
	2 pumps	947	399	1099	30%	30%	20%	20%	311
	3 pumps	997	397	1145	29%	29%	21%	21%	312
	4 pumps	1048	395	1186	28%	28%	22%	22%	
NXW0750H	without pump	948	410	1103	24%	25%	25%	26%	310
	1 pump	1064	405	1223	27%	28%	22%	23%	651
	2 pumps	1124	403	1279	26%	26%	24%	24%	
	3 pumps	1185	401	1330	25%	25%	25%	25%	
	4 pumps	1225	399	1361	27%	27%	23%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.4. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION H - SIZES FROM 0800 TO 1650)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0800H	without pump	1042	415	1227	24%	26%	24%	26%	310
	1 pump	1157	410	1244	29%	30%	20%	21%	
	2 pumps	1218	408	1295	28%	29%	21%	22%	
	3 pumps	1278	406	1341	27%	28%	22%	23%	
	4 pumps	1339	404	1384	27%	27%	23%	23%	
NXW0900H	without pump	1275	415	1240	23%	25%	25%	27%	314
	1 pump	1391	411	1348	29%	31%	19%	20%	
	2 pumps	1451	409	1399	29%	30%	20%	21%	
	3 pumps	1512	407	1446	28%	29%	21%	22%	
	4 pumps	1572	405	1489	28%	28%	22%	22%	
NXW1000H	without pump	1545	413	1333	22%	23%	27%	28%	316
	1 pump	1686	409	1435	28%	30%	21%	22%	
	2 pumps	1771	407	1489	28%	29%	22%	22%	
	3 pumps	1857	405	1539	27%	28%	22%	23%	
	4 pumps	1892	404	1558	27%	27%	23%	23%	
NXW1250H	without pump	1577	414	1322	22%	23%	26%	28%	315
	1 pump	1718	410	1423	28%	30%	20%	21%	
	2 pumps	1803	408	1477	28%	29%	21%	22%	
	3 pumps	1889	406	1527	27%	28%	22%	23%	
	4 pumps	1924	405	1546	27%	28%	22%	23%	
NXW1400H	without pump	1657	413	1342	22%	23%	27%	29%	317
	1 pump	1797	409	1437	28%	30%	21%	22%	
	2 pumps	1883	407	1488	28%	29%	21%	22%	
	3 pumps	1969	405	1535	27%	28%	22%	23%	
	4 pumps	2004	404	1554	27%	27%	23%	23%	
NXW1500H	without pump	1657	413	1342	22%	23%	27%	29%	317
	1 pump	1797	409	1437	28%	30%	21%	22%	
	2 pumps	1883	407	1488	28%	29%	21%	22%	
	3 pumps	1969	405	1535	27%	28%	22%	23%	
	4 pumps	2004	404	1554	27%	27%	23%	23%	
NXW1650H	without pump	1657	413	1342	22%	23%	27%	29%	317
	1 pump	1797	409	1437	28%	30%	21%	22%	
	2 pumps	1883	407	1488	28%	29%	21%	22%	
	3 pumps	1969	405	1535	27%	28%	22%	23%	
	4 pumps	2004	404	1554	27%	27%	23%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.5. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION L - SIZES FROM 0500 TO 0750)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500L	without pump	750	399	834	28%	27%	23%	22%	309
	1 pump	932	392	895	34%	33%	17%	16%	311
	2 pumps	979	391	948	33%	32%	18%	17%	
	3 pumps	1026	389	996	32%	31%	19%	18%	
	4 pumps	1074	388	1183	29%	27%	23%	21%	312
NXW0550L	without pump	755	399	832	28%	27%	23%	22%	309
	1 pump	936	392	892	34%	33%	17%	16%	311
	2 pumps	983	391	946	33%	32%	18%	17%	
	3 pumps	1031	390	994	32%	31%	19%	18%	
	4 pumps	1078	389	1180	29%	27%	22%	21%	312
NXW0600L	without pump	854	404	888	26%	26%	24%	24%	310
	1 pump	1036	397	933	33%	32%	17%	17%	311
	2 pumps	1083	395	979	32%	32%	18%	18%	
	3 pumps	1130	394	1022	32%	31%	19%	19%	
	4 pumps	1178	393	1191	28%	27%	22%	22%	312
NXW0650L	without pump	863	405	887	26%	26%	24%	24%	303
	1 pump	1048	397	935	33%	32%	17%	17%	311
	2 pumps	1098	396	984	32%	31%	18%	18%	
	3 pumps	1149	394	1029	31%	31%	19%	19%	
	4 pumps	1200	393	1197	28%	27%	23%	22%	310
NXW0700L	without pump	900	407	901	25%	26%	24%	25%	303
	1 pump	1084	400	1085	30%	30%	20%	20%	651
	2 pumps	1135	398	1126	29%	29%	21%	21%	
	3 pumps	1186	396	1164	29%	28%	22%	21%	
	4 pumps	1236	395	1198	28%	27%	22%	22%	
NXW0750L	without pump	1054	410	1087	24%	25%	25%	26%	310
	1 pump	1249	403	1271	29%	29%	21%	21%	651
	2 pumps	1310	401	1318	28%	28%	22%	22%	
	3 pumps	1370	399	1360	27%	27%	23%	23%	
	4 pumps	1411	398	1386	27%	27%	23%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.6. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION L - SIZES FROM 0800 TO 1650)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0800L	without pump	1187	411	1226	24%	25%	25%	26%	314
	1 pump	1357	405	1292	28%	29%	21%	22%	652
	2 pumps	1417	403	1334	28%	28%	22%	22%	
	3 pumps	1478	402	1373	27%	27%	23%	23%	
	4 pumps	1538	400	1408	27%	27%	23%	23%	
NXW0900L	without pump	1378	418	1220	24%	26%	24%	26%	314
	1 pump	1585	411	1399	29%	30%	20%	21%	653
	2 pumps	1646	409	1442	28%	29%	21%	22%	
	3 pumps	1706	407	1482	28%	29%	21%	22%	
	4 pumps	1767	406	1519	27%	28%	22%	23%	
NXW1000L	without pump	1615	420	1300	22%	24%	26%	28%	315
	1 pump	1847	413	1462	28%	29%	21%	22%	654
	2 pumps	1933	411	1511	27%	29%	22%	23%	
	3 pumps	2019	409	1556	27%	28%	22%	23%	
	4 pumps	2054	408	1573	26%	27%	23%	24%	
NXW1250L	without pump	1659	419	1296	22%	24%	26%	28%	315
	1 pump	1891	412	1455	28%	29%	21%	22%	659
	2 pumps	1977	410	1503	27%	29%	22%	23%	
	3 pumps	2063	408	1547	27%	28%	22%	23%	
	4 pumps	2098	407	1564	27%	27%	23%	23%	
NXW1400L	without pump	1737	418	1316	22%	24%	26%	28%	317
	1 pump	1969	411	1466	28%	29%	21%	22%	659
	2 pumps	2055	409	1512	27%	28%	22%	23%	
	3 pumps	2140	407	1555	27%	28%	22%	23%	
	4 pumps	2176	407	1571	26%	27%	23%	24%	
NXW1500L	without pump	1737	418	1316	22%	24%	26%	28%	317
	1 pump	1969	411	1466	28%	29%	21%	22%	659
	2 pumps	2055	409	1512	27%	28%	22%	23%	
	3 pumps	2140	407	1555	27%	28%	22%	23%	
	4 pumps	2176	407	1571	26%	27%	23%	24%	
NXW1650L	without pump	1737	418	1316	22%	24%	26%	28%	317
	1 pump	1969	411	1466	28%	29%	21%	22%	659
	2 pumps	2055	409	1512	27%	28%	22%	23%	
	3 pumps	2140	407	1555	27%	28%	22%	23%	
	4 pumps	2176	407	1571	26%	27%	23%	24%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.7. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION HL - SIZES FROM 0500 TO 750)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500HL	without pump	801	393	847	28%	27%	23%	22%	309
	1 pump	982	387	902	34%	32%	17%	16%	311
	2 pumps	1030	386	952	33%	31%	18%	17%	
	3 pumps	1077	385	998	33%	30%	19%	18%	312
	4 pumps	1124	384	1041	32%	30%	20%	19%	
NXW0550HL	without pump	805	393	845	28%	27%	23%	22%	309
	1 pump	987	388	900	34%	32%	17%	16%	311
	2 pumps	1034	387	950	33%	31%	18%	17%	
	3 pumps	1081	386	996	33%	30%	19%	18%	312
	4 pumps	1129	385	1038	32%	30%	20%	18%	
NXW0600HL	without pump	907	398	897	26%	26%	24%	24%	310
	1 pump	1088	392	938	33%	32%	18%	17%	311
	2 pumps	1135	391	983	33%	31%	19%	18%	312
	3 pumps	1183	390	1023	32%	30%	19%	18%	
	4 pumps	1230	389	1061	31%	30%	20%	19%	
NXW0650HL	without pump	915	399	897	26%	26%	24%	24%	303
	1 pump	1100	393	941	33%	32%	18%	17%	311
	2 pumps	1151	391	987	32%	31%	19%	18%	313
	3 pumps	1201	390	1030	32%	30%	20%	19%	
	4 pumps	1252	389	1069	31%	29%	20%	19%	
NXW0700HL	without pump	963	398	916	25%	25%	25%	25%	304
	1 pump	1148	393	1088	30%	29%	21%	20%	651
	2 pumps	1199	392	1126	30%	29%	21%	20%	
	3 pumps	1249	390	1162	29%	28%	22%	21%	
	4 pumps	1300	389	1194	29%	27%	23%	22%	
NXW0750HL	without pump	1121	403	1105	24%	24%	26%	26%	314
	1 pump	1316	397	1277	27%	26%	24%	23%	652
	2 pumps	1376	395	1321	26%	25%	25%	24%	
	3 pumps	1437	394	1361	25%	24%	26%	25%	
	4 pumps	1477	393	1386	27%	27%	23%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.8. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS (VERSION HL - SIZES FROM 0800 TO 1650)

MODEL		Weight	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
			CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0800HL	without pump	1240	407	1228	24%	25%	25%	26%	314
	1 pump	1409	402	1291	28%	29%	21%	22%	665
	2 pumps	1470	400	1331	28%	28%	22%	22%	
	3 pumps	1530	399	1368	27%	27%	23%	23%	
	4 pumps	1591	397	1403	27%	27%	23%	23%	
NXW0900HL	without pump	1473	408	1239	24%	25%	25%	26%	315
	1 pump	1680	402	1406	29%	30%	21%	21%	653
	2 pumps	1740	401	1446	29%	29%	21%	21%	
	3 pumps	1801	400	1484	28%	28%	22%	22%	
	4 pumps	1861	399	1519	28%	28%	22%	22%	
NXW1000HL	without pump	1743	408	1322	22%	23%	27%	28%	317
	1 pump	1975	402	1471	28%	29%	22%	22%	659
	2 pumps	2061	401	1516	28%	28%	22%	22%	
	3 pumps	2147	399	1558	27%	27%	23%	23%	
	4 pumps	2182	399	1575	27%	27%	23%	23%	
NXW1250	without pump	1775	408	1313	22%	23%	27%	28%	317
	1 pump	2007	403	1460	28%	29%	21%	22%	659
	2 pumps	2093	402	1506	28%	28%	22%	22%	
	3 pumps	2178	400	1548	27%	27%	23%	23%	
	4 pumps	2214	399	1564	27%	27%	23%	23%	
NXW1400HL	without pump	1855	408	1331	22%	23%	27%	28%	318
	1 pump	2087	403	1471	28%	29%	21%	22%	659
	2 pumps	2173	401	1514	28%	28%	22%	22%	
	3 pumps	2258	400	1554	27%	27%	23%	23%	
	4 pumps	2294	399	1570	27%	27%	23%	23%	
NXW1500HL	without pump	1855	408	1331	22%	23%	27%	28%	318
	1 pump	2087	403	1471	28%	29%	21%	22%	659
	2 pumps	2173	401	1514	28%	28%	22%	22%	
	3 pumps	2258	400	1554	27%	27%	23%	23%	
	4 pumps	2294	399	1570	27%	27%	23%	23%	
NXW1650HL	without pump	1855	408	1331	22%	23%	27%	28%	318
	1 pump	2087	403	1471	28%	29%	21%	22%	659
	2 pumps	2173	401	1514	28%	28%	22%	22%	
	3 pumps	2258	400	1554	27%	27%	23%	23%	
	4 pumps	2294	399	1570	27%	27%	23%	23%	

⚠ NOTE

- The number of pumps refers to the quantity physically present on the machine.
- The weight difference between the types of configurator pumps (low head and high head) is negligible.

⚠ NOTE

Version with desuperheater (D)

- use the same positions for antivibration pad fixing as for the AVX of the standard version
- desuperheater additional weight : 23 kg for all models from 500 to 800 size / 29 kg. for all models from 900 to 1400 size

9.9. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS VERSION TOTAL RECOVERY (T) ALL SIZE

MODEL	VERS.	EMPTY			PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
		Weight	CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500	T	728	419	1200	26%	29%	21%	23%	303
NXW0550		733	419	1195	27%	29%	21%	23%	303
NXW0600		852	424	1269	25%	28%	22%	25%	310
NXW0650		860	4045	1235	27%	27%	23%	23%	310
NXW0700		914	428	1303	24%	28%	22%	26%	310
NXW0750		1060	431	1477	23%	27%	23%	26%	314
NXW0800		1190	430	1487	23%	27%	23%	27%	652
NXW0900		1443	437	1658	23%	28%	22%	27%	315
NXW1000		1756	442	1801	21%	26%	24%	29%	322
NXW1250		1805	440	1790	21%	26%	24%	29%	322
NXW1400		1912	440	1824	21%	25%	24%	29%	322
NXW1500		1912	440	1824	21%	25%	24%	29%	322
NXW1650		1912	440	1824	21%	25%	24%	29%	322

9.10. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS VERSION SILENCED MODE WITH TOTAL RECOVERY (T) ALL SIZE

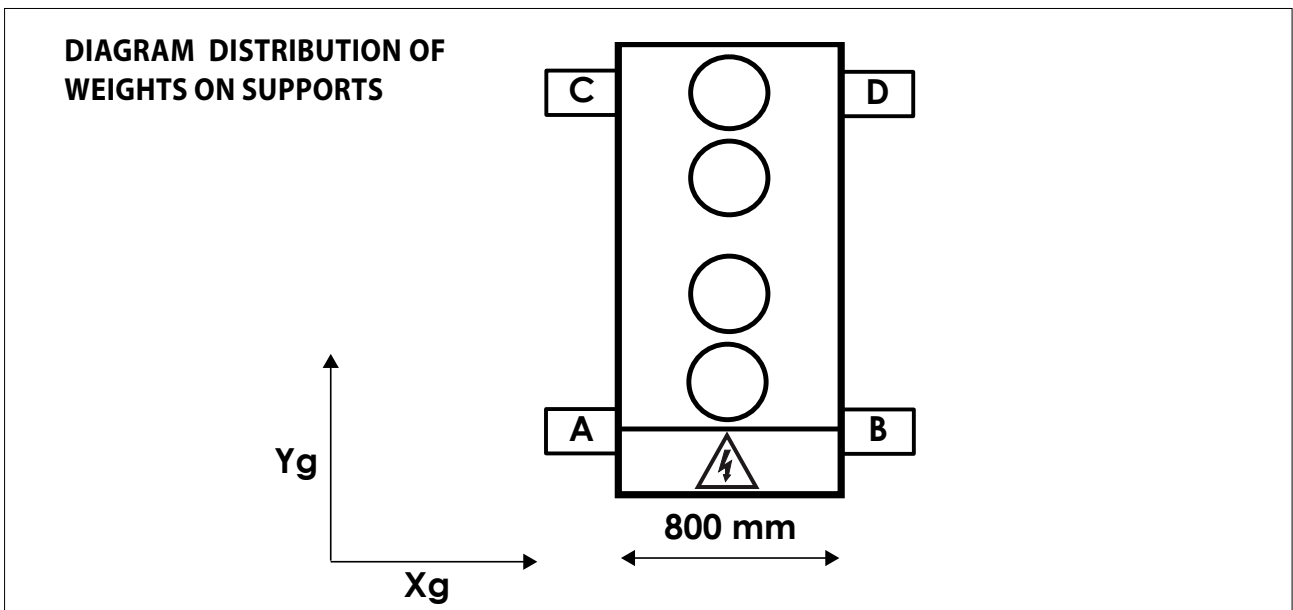
MODEL	VERS.	EMPTY			PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
		Weight	CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500	LT	980	404	1207	27%	28%	22%	23%	312
NXW0550		985	405	1204	27%	28%	22%	23%	312
NXW0600		1104	410	1259	26%	27%	23%	24%	651
NXW0650		1112	395	1233	27%	27%	23%	23%	651
NXW0700		1166	414	1287	25%	27%	23%	25%	652
NXW0750		1312	418	1482	24%	27%	23%	26%	652
NXW0800		1441	418	1490	24%	26%	24%	26%	652
NXW0900		1732	425	1662	24%	27%	23%	26%	323
NXW1000		2045	431	1784	22%	26%	24%	28%	324
NXW1250		2094	430	1775	22%	26%	24%	28%	324
NXW1400		2202	430	1805	22%	25%	25%	29%	324
NXW1500		2202	430	1805	22%	25%	25%	29%	324
NXW1650		2202	430	1805	22%	25%	25%	29%	324

9.11. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS VERSION CONDESERLESS (E)-ALL SIZE

MODEL	VERS.	EMPTY			PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX
		Weight	CENTRE OF GRAVITY		A	B	C	D	
			Xg	Yg					
NXW0500	E	525	396	771	29%	29%	21%	21%	319
NXW0550		530	397	768	29%	29%	21%	21%	319
NXW0600		610	399	835	28%	27%	23%	22%	301
NXW0650		619	400	834	27%	27%	23%	23%	301
NXW0700		638	400	840	27%	27%	23%	23%	301
NXW0750		796	406	1013	26%	27%	23%	24%	303
NXW0800		904	409	1161	25%	27%	23%	25%	310
NXW0900		1044	411	1130	26%	27%	23%	24%	314
NXW1000		1260	413	1237	24%	25%	25%	26%	316
NXW1250		1304	412	1234	24%	25%	25%	26%	316
NXW1400		1358	409	1252	24%	25%	25%	26%	315
NXW1500		1358	409	1252	24%	25%	25%	26%	315
NXW1650		1358	409	1252	24%	25%	25%	26%	315

9.12. PERCENTAGE DISTRIBUTION OF WEIGHTS ON SUPPORTS VERSION CONDENSERLESS - SILENCED MODE (E)-ALL SIZE

MODEL	VERS.	EMPTY		PERCENTAGE WEIGHT DISTRIBUTION ON SUPPORTS (%)				AVX	
		Weight	CENTRE OF GRAVITY		A	B	C		D
			Xg	Yg					
NXW0500	LE	697	388	787	30%	28%	22%	21%	309
NXW0550		702	389	786	30%	28%	22%	21%	309
NXW0600		782	391	835	28%	27%	23%	22%	310
NXW0650		791	392	836	28%	27%	23%	22%	303
NXW0700		810	392	839	28%	27%	23%	22%	303
NXW0750		968	399	1030	26%	26%	24%	24%	310
NXW0800		1104	400	1176	26%	26%	24%	24%	314
NXW0900		1244	404	1148	26%	27%	23%	24%	314
NXW1000		1460	407	1238	24%	25%	25%	26%	315
NXW1250		1504	406	1235	24%	25%	25%	26%	315
NXW1400		1558	403	1251	24%	24%	26%	26%	317
NXW1500		1558	403	1251	24%	24%	26%	26%	317
NXW1650		1558	403	1251	24%	24%	26%	26%	317



10. ELECTRICAL WIRINGS

NXW chillers are completely wired in the factory and only need the connection to the electricity mains supply, downstream from a group switch, according to the regulations in force in the country where the machine is installed. It is also suggested to check:

- the mains supply characteristics, to ensure it is suitable for the levels indicated in the electrical data table, also taking into consideration any other equipment that may be operating at the same time.
- The unit is only powered after the last (hydraulic and electric) installations.
- Follow the connections instructions of the phase conductors, and earth.
- The power supply line will have a special protection upstream against short circuits and earth losses that sections the system according to other users.
- The voltage should be within a tolerance of $\pm 10\%$ of the rated supply voltage of the machine (for Three-phase units displacement max 3% between the phases). If these parameters are not respected, contact the energy supplier. For electrical wirings use isolated double cables according to the standards in force in the different countries.
- It is necessary to use a omnipolar thermomagnetic switch, in compliance with the CEI-EN standards (contact opening of at least 3 mm), with adequate switch capability and differential protection based on the followed electrical data table, installed as close as possible to the machine.
- It is necessary to carry out an efficient earth connection. The manufacturer can not be held responsible for any damage caused by the failure and ineffective earthing of the machine.
- For units with Three-phase power check the correct connection of the phases.

WARNING:

It is forbidden to use water pipes for the earthing of the machine.

10.1. RECOMMENDED SECTION OF ELECTRIC CABLES

The cable sections indicated in the table are advised for a maximum length of 50 m.

For higher lengths or different types of cable installation, it will be the DESIGNERS responsibility to carefully measure the line main switch, the supply power line and the earthing protection connection, and the working connection cables:

- the length
- the type of cable
- Absorption of the unit and its physical position, and room temperature.

WARNING

Check that all power cables are correctly secured to the terminals when switched on for the first time and after 30 days of use. Afterwards, check the connection of the power cables every six months. Slack terminals could cause the cables and components to overheat.

All electrical operations must be carried out by qualified personnel, in accordance with the corresponding regulations, trained and informed about the risks related to such operations.

The characteristics of electric lines and related components must be established by personnel authorised to design electric installations, following international regulations and the national regulations of the country in which the unit is installed, in compliance with the legislative regulations in force at the moment of installation.

For installation requirements, the wiring layout supplied with the unit must be compulsory referred to. The wiring layout together with the manuals must be kept in good conditions and readily accessible for future operations on the unit.

It is compulsory to check the machine sealing before connecting the electrical wirings. The machine should only be powered once the hydraulic and electric operations are completed.

**ELECTRICAL DATA VERSION ° WITHOUT PUMPING GROUP
(ALL VERSIONS)**

MODEL	MAX RECOMMENDED LENGTH (metres)	SEZ A (400V-3)	SEZ B	EARTH (400V-3)	IL (400V-3)
		U.M.	U.M.	U.M.	U.M.
		mm ²	mm ²	mm ²	A
NXW 0500	50	16	1,5	16	80
NXW 0550		16		100	
NXW 0600		25		100	
NXW 0650		25		125	
NXW 0700		35		160	
NXW 0750		50		160	
NXW 0800		70		200	
NXW 0900		70		200	
NXW 1000		70		250	
NXW 1250		95		250	
NXW 1400		95		250	
NXW 1500		120		315	
NXW 1650		150		400	

KEY

Sec. A: Power supply

Sec. B: Controls and safety connection

Earth

IL: Main switch

**ELECTRICAL DATA VERSION WITH PUMPING GROUP
(ALL VERSIONS)**

MODEL	MAX RECOMMENDED LENGTH (metres)	SEZ A (400V-3)	SEZ B	EARTH (400V-3)	IL (400V-3)
		U.M.	U.M.	U.M.	U.M.
		mm ²	mm ²	mm ²	A
NXW 0500	50	16	1,5	16	100
NXW 0550		25		100	
NXW 0600		25		125	
NXW 0650		35		125	
NXW 0700		50		160	
NXW 0750		50		160	
NXW 0800		70		200	
NXW 0900		70		200	
NXW 1000		95		250	
NXW 1250		95		250	
NXW 1400		95		250	
NXW 1500		120		315	
NXW 1650		150		400	

KEY

Sec. A: Power supply

Sec. B: Controls and safety connection

Earth

IL: Main switch

10.2. CONNECTION TO THE POWER SUPPLY

- Check there is no voltage on the electric line you want to use.

10.2.1. To access the electric box:

- Turn the electrical panel screws ¼ in counter-clockwise direction
- Turn the handle of the door-block disconnecting switch to OFF (see figure). In this way, the electrical panel can be accessed

10.3. ELECTRICAL POWER CONNECTION

- For the functional connection of the unit, run the power supply cable to the electrical panel inside the unit fig. 1 and connect it to the disconnecting switch terminals observing the phase and the earth. fig. 2

10.4. AUXILIARY CONNECTIONS AT THE USER/INSTALLER EXPENSE

For installation requirements, refer to the wiring diagram supplied with the unit. The wiring diagram together with the manuals must be kept in good conditions and readily ACCESSIBLE FOR FUTURE OPERATIONS ON THE UNIT.



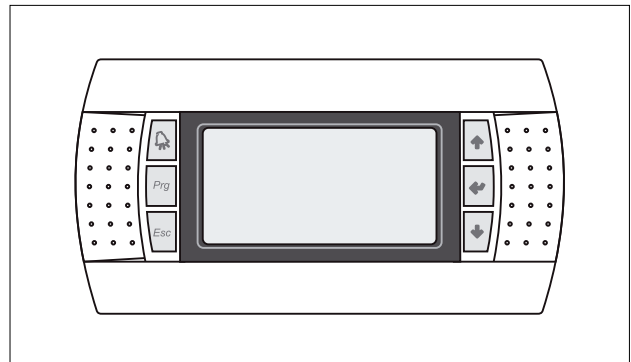
Fig.1



Fig.2

Key fig. 2

L1	Line 1
L2	Line 2
L3	Line 3
PE	Earth



11. CONTROL AND FIRST START-UP

11.1. PREPARATION FOR COMMISSIONING

Bear in mind that a free start-up service is offered by the Aermec Technical Service for the unit of this series, at the request of Aermec customers or legitimate owners and in ITALY only. The start-up must be previously agreed on the basis of the system implementation times. Before the intervention of the AERMEC After Sales Service, all the operations (electrical and hydraulic hook ups, loading and breather from the system) must be completed.

Before starting the unit make sure that:

- All the safety conditions have been respected
- The unit has been properly fixed to the support base
- The minimum technical spaces have been observed;
- Water connections have been performed respecting the input and output
- The hydraulic system has been loaded and vented.
- The hydraulic circuit taps are open
- The electrical wirings have been properly carried out;
- The voltage is within a tolerance of 10% of the unit rated voltage
- The earthing has been carried out correctly
- Tightening of all electrical and hydraulic connections have been well carried out.

11.2. FIRST COMMISSIONING OF THE MACHINE

Before activating the unit:

- Close the electric panel lid.
- Position the door-block disconnecting switch of the machine on ON, turning the handle down. (fig.3)
- The display on (fig.4) indicates that the unit is ready for operation.

For more information see the USER'S MANUAL

11.3. SEASON CHANGEOVER

For the season changeover, see the user's manual.

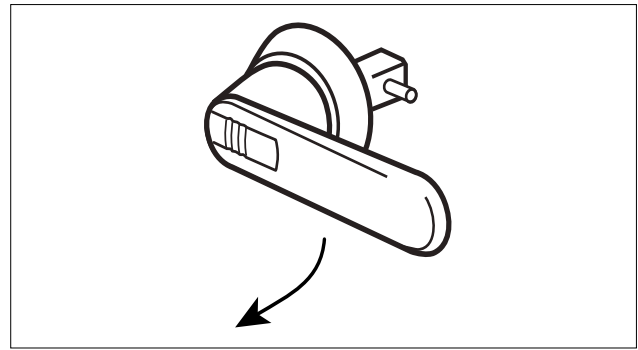


Fig.3



Fig.4

WARNING

The first start-up has to be carried out with the standard settings, only when the test is finished the values of the operation Set Point vary. Before starting up, power the unit for at least 12-24 hours by positioning the protection thermomagnetic switch and the door-block disconnecting switch on ON fig.1 Make sure that the control panel is turned off until it allows the oil heater system the compressor casing.

12. OPERATION CHARACTERISTICS

12.1. COOLING SET POINT

(Default defined) = 7°C, $\Delta t = 5^\circ\text{C}$.

12.2. HEATING SET POINT

(Default defined) = 45°C, $\Delta t = 5^\circ\text{C}$.

In case of restoring of the unit supplied power after a momentary interruption, the pre-set mode is maintained in memory.

12.3. COMPRESSOR START-UP DELAY

To prevent the compressor start too close to each other, two functions have been arranged.

- Minimum time from last turnoff 60 seconds.
- Minimum time from last start 300 seconds.

12.4. CIRCULATION PUMP

The electronic board provides an output to manage the circulation pump. After the first 10 seconds of pump operation, when the water flow rate is running, activate the function of water flow rate alarm (flow switch).

12.5. ANTI-FREEZE ALARM

The anti-freeze alarm is active as if the machine is turned-off or if the machine is in standby mode. In order to prevent breakage of the plate-type exchanger due to freezing water contained, the compressor is locked (if the machine is turned on under 4°C) and the heater starts up (if standby below 5°C). If the temperature detected by the probe in the exchanger output and in the chiller input is below +4°C.

WARNING

THE ANTI-FREEZE SET TEMPERATURE CAN BE VARIED ONLY BY AN AUTHORISED SERVICE CENTRE AND ONLY AFTER VERIFYING THAT IN THE WATER CIRCUIT IS AN ANTIFREEZE SOLUTION.

The intervention of this alarm sets the compressor block and not of the pump block, which remains active, and the heater starts up if installed.

For resetting the normal functions, the water output temperature has to be over +4°C, the reset is manual.

WARNING:

AT ANY INTERVENTIONS OF THIS ALARM IT IS RECOMMENDED TO IMMEDIATELY CONTACT THE NEAREST TECHNICAL SERVICE ASSISTANCE

12.6. WATER FLOW RATE ALARM

The PGD1 provides the management of a water flow rate alarm commanded from a flow switch installed on the machine as standard. This safety type can occur after the first 10 seconds of operation of the pump if the water flow rate is not sufficient.

This alarm sets the block of the compressor and the pump.

13. REGULAR MAINTENANCE

Any cleaning operation is forbidden before disconnecting the unit from the power supply.

Check for voltage before operating.

Periodic maintenance is essential to maintain the unit in perfect working order under the functional as well as the energetic aspect.

Therefore it is essential to provide yearly controls for the:

13.6.1. Hydraulic circuit

CONTROL:

- Water circuit filling
- Water filter cleaning
- Flow switch control
- Air in the circuit (leaks)

- That the water flow rate to the evaporator is always constant
- The hydraulic piping thermal insulation state
- Where provided the percentage of glycol

13.6.2. Electric circuit

CONTROL:

- Efficiency of safety devices
- Electrical power supply
- Electrical power consumption
- Connections tightened
- Compressor casing heater operation

13.6.3. Cooling circuit

CONTROL:

- Compressor conditions
- Efficiency of the tube core exchanger heater
- Working pressure
- Loss test for the control of the the cooling circuit sealing
- High and low pressure switches operation
- Perform the necessary checks on the filter-drier to verify their efficiency.

13.6.4. Mechanical controls

CONTROL:

- The screws, compressors and the electric box of the unit external panelling are properly tightened. If they are poorly tightened, they produce abnormal noise and vibrations
- The structure conditions.
If necessary, treat oxidised parts with paints suitable for eliminating or reducing oxidation.

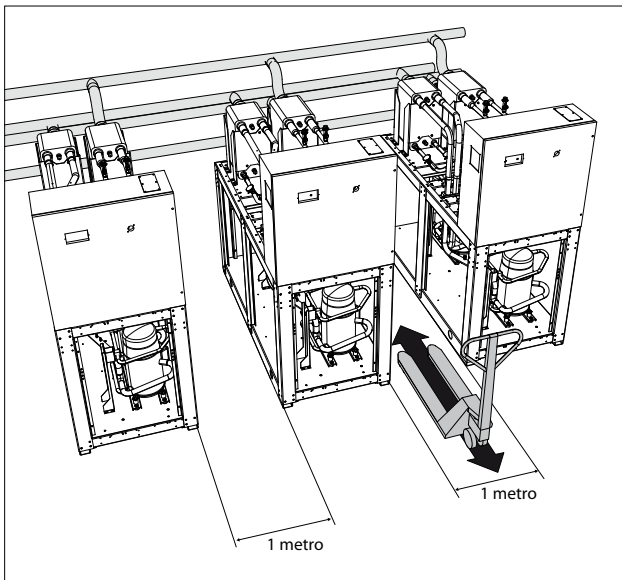
14. EXTRAORDINARY MAINTENANCE

The NXW are loaded with R410A gas and tested in the factory. In normal conditions, no Technical Assistance Service operation is needed for the refrigerant gas check. In the long run, however, small leaks from the joints may arise. Due to these leaks, the refrigerant comes out and the circuit is drained, causing the unit to malfunction. In these cases, the refrigerant leakage points are found and repaired, and the cooling circuit is recharged, operating in compliance with Law 28 December 1993 no. 549.

14.6.1. Loading procedure

The loading procedure is as follows:

- Empty and dehydrate the entire cooling circuit using a vacuum pump connected to both the low and high pressure test points, until the vacuum gauge reads about 10 Pa. Wait some minutes and check that this value does not go back again over 50 Pa.
- Connect the refrigerant gas bomb or a load cylinder to the grip on the low-pressure line.
- Charge the amount of refrigerant gas indicated on the characteristics plate of the machine.
- After any operation control that the liquid indicator indicates a dry circuit (dry-green) In case of partial loss the circuit has to be emptied completely before reloading it.
- The refrigerant R410A has to be loaded only in liquid phase.
- Different operating conditions from the normal can result in different values.
- Leak testing or leaking research must be carried out only by using refrigerant gas R410A by checking with a suitable leak detection.
- It is prohibited to use oxygen or acetylene or other flammable or poisonous gas in the cooling circuit, because they can cause explosions or intoxication.



Minimum technical spaces for maintenance

ATTENTION

It is advisable to keep a machine booklet (not supplied, but provided by the user), in order to keep trace of the operations carried out on the unit. In this way, it will be easier to organise the operations properly and facilitate failure prevention and troubleshooting in the machine.

In the booklet, write down date, type of operation carried out (regular maintenance, inspection or repair), description of the operation, measures taken.

It is forbidden to CHARGE the cooling circuits with a refrigerant different from the one indicated. If a different refrigerant gas is used, the compressor may be seriously damaged.

DISPOSAL

Provided that the disposal of the unit is carried out according to the rules in force in different countries.

WARNING

Inspection, maintenance and possible repair operations must be carried out only by an authorised technician according to the law.

Unsuitable check/maintenance operation may cause damage to things and people.

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