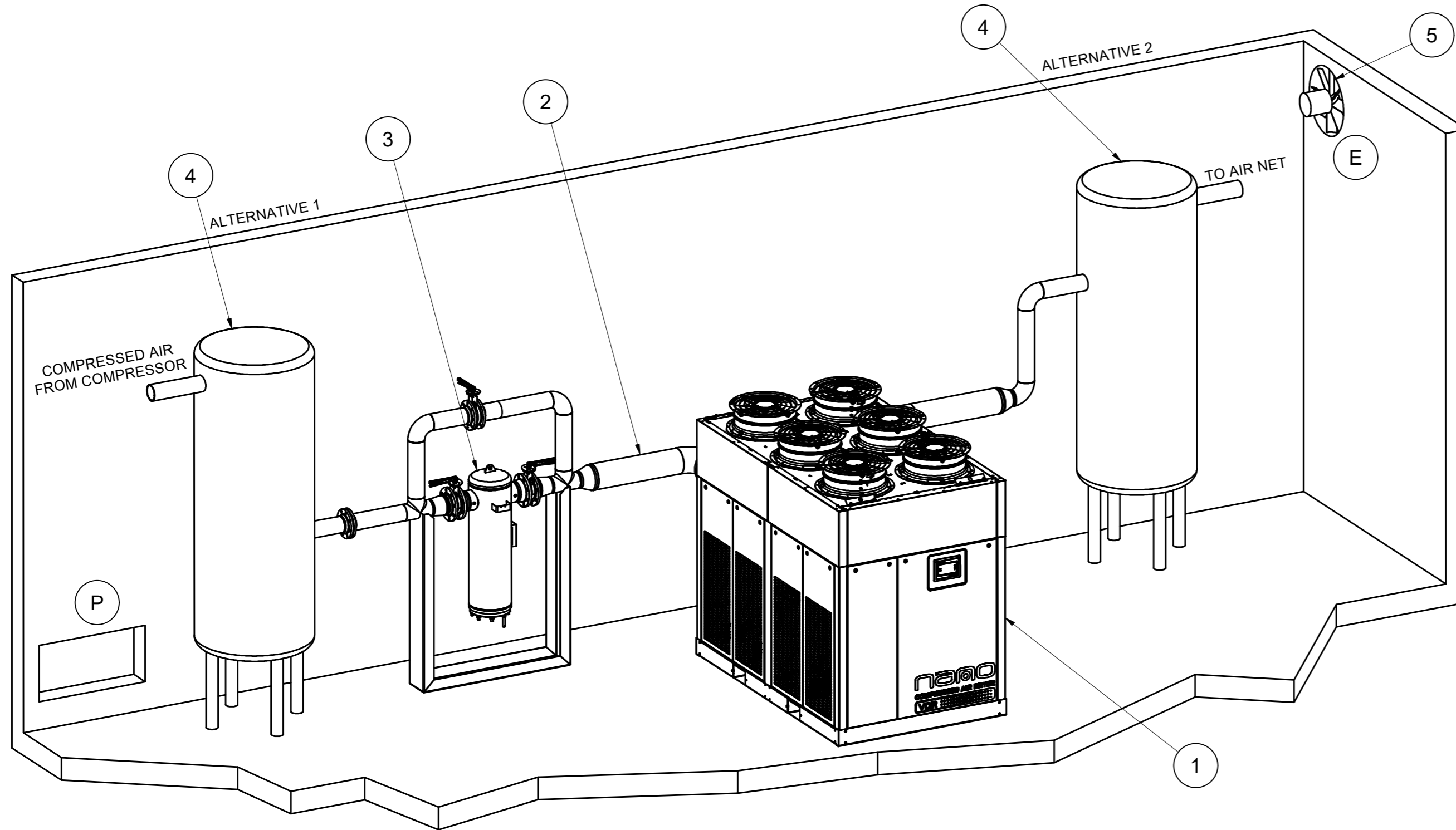


VDR6350 / VDR8450
AIRCOOLED



1 : DRYER UNIT

The unit should be installed on a level floor capable of taking the weight of the dryer. Dimensions stated on this drawing are minimum distances. There must be a free space of 800mm / 32in around the dryer.

2 : COMPRESSED AIR PIPES

All pipes should be installed stress free to the dryer unit. All pipes should be installed so that there is no obstruction accessing the unit through the removing panels. Inlet pipe orientation must be straight or with a 90° upward bend to ensure equal air flow to all internal heat exchangers. Compressed air pressure should never exceed the dryers design pressure. It is recommended to install a full flow safety valve at the dryer inlet. The maximum total pipe length (including interconnecting piping between dryer and receiver) can be calculated as follows:

$$\Delta p = (L \times 450 \times Qc) / (d \times p)$$

- L = length of pipe (m)
- Δp = pressure drop (recommended maximum = 0.1 bar / 1.5 psi)
- d = inner diameter of pipe (mm)
- p = absolute pressure at dryer outlet (bar(a))
- Qc = Free air delivery of the compressor (l/s)

3 : FILTER (optional)

It is recommended to install compressed air filter at dryer inlet to achieve air purity class: iso 8573 - 1 : 2010 [2 : - : -]. The air filter has to be supported and can't be mounted to the dryer directly without extra supports.

4 : AIR RECEIVER (optional)

Should be installed in a frost free room on a solid, level floor. The preferred position depends of the most fluctuating flow. Alternative 1 : In front of the dryer when the air flow from the compressor fluctuates the most. Alternative 2 : Behind the dryer when the air demand fluctuates the most.

POWER SUPPLY

The cable has to be sized and installed by a qualified electrician.

5 : VENTILATION (Air cooled dryer variant)

The inlet grid(s) (P) and ventilation fan (E) (if applicable) should be installed in such a way that natural circulation of air is guaranteed and recirculation of cooling air is avoided.

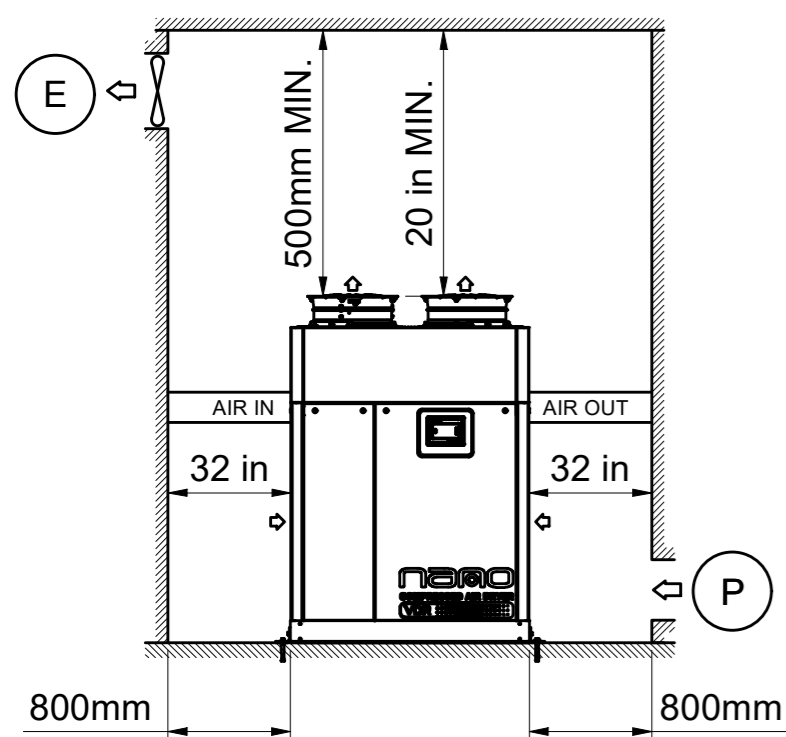
The required ventilation to limit the dryer room temperature is noted in the ventilation requirement table.

In ventilation proposal 2 the fan (E) capacity should match the dryer fan capacity at a pressure head equal to the pressure drop caused by cooling air ducting. Max. allowable pressure drop in ducting after the dryer = 30 Pa. The air velocity to the grid(s) has to be limited to 5 m/s. The direction of the cooling flows may never be inverted.

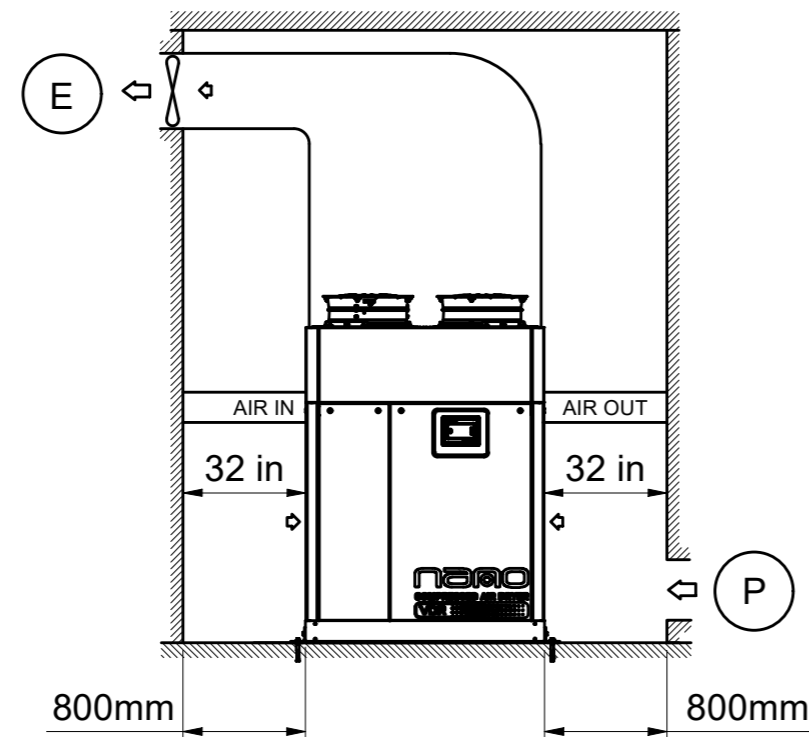
DRAIN PIPES

Drain pipes to drain collector must not dip into the water. For draining of pure condensate water, install an oil / water separator. Consult Nano.

VENTILATION PROPOSAL 1



VENTILATION PROPOSAL 2



	VENTILATION REQUIREMENTS			
	METRIC		IMPERIAL	
Dryer type / Ambient version	Cooling air Temp. limits	Max. cooling air Flow	Cooling air Temp. limits	Max. cooling air Flow
VDR6350 / 40°C	0-40°C	48000 m³/h	32-104°F	28240 ft³/min
VDR8450 / 40°C	0-40°C	48000 m³/h	32-104°F	28240 ft³/min

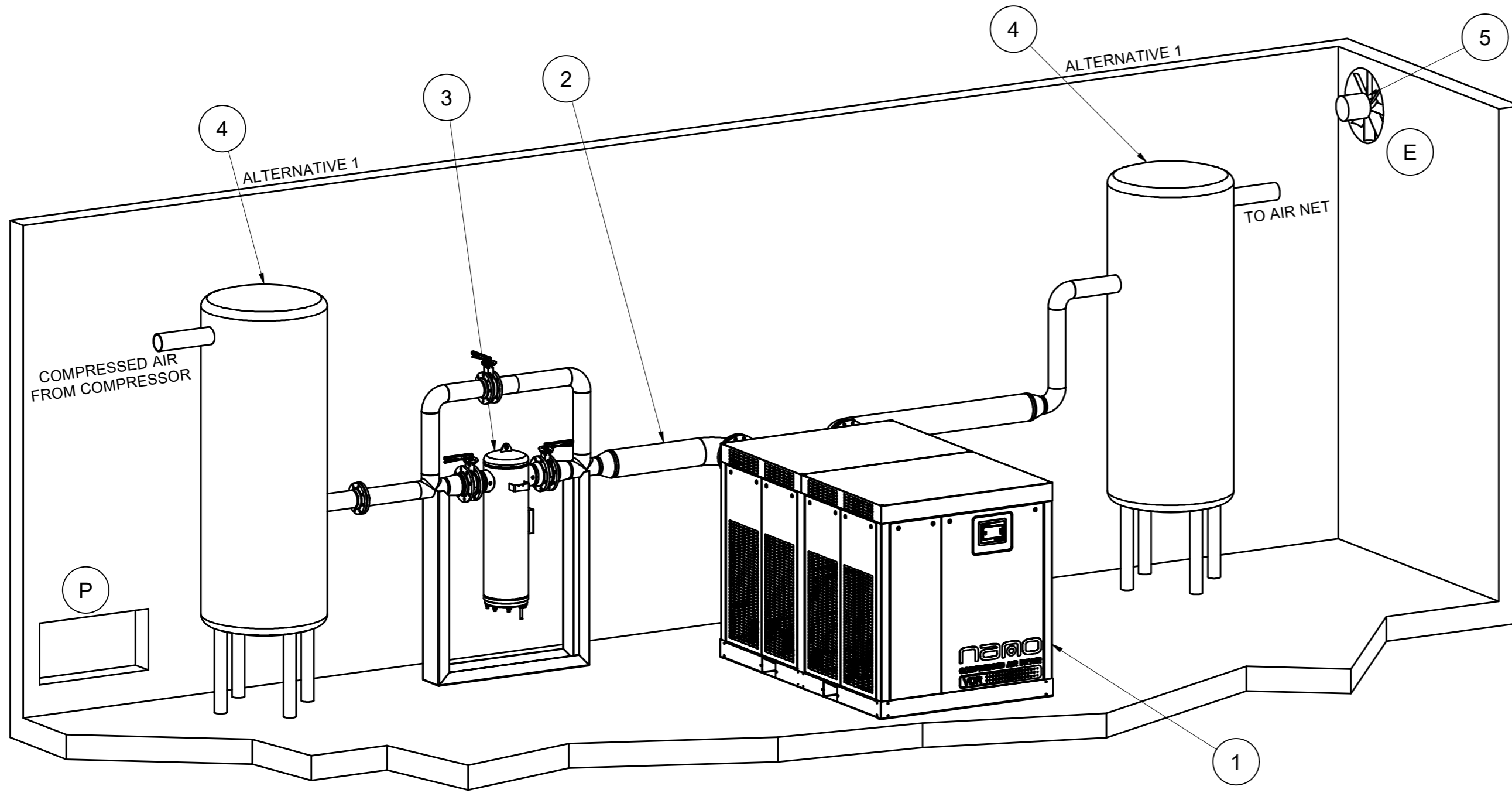
Tolerances, if not indicated, according to:				
STANDARD CLASS				
Name	DIMENS. INSTALL.		VDR6350 / VDR8450	
Material	Not Applicable		INSTALL. PROPOSAL	
Treatment	Not Applicable		INV	
Scale	1:50	Family	A2 Compare	
Drawn by	INEMSI	Blank nr.	Replaces	
Version Drwg	Blank wt	Kg / Fini wt.	N/A	Designation
Des checked.	Prod checked.	Approved.	Date	12/11/2021
STATUS				Released
Parent 3D model				Ed. / Version 3D
1839007672-M1				1
1839007672-01				1 / 2

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1		25/02/2022	User Agent
Ed	Position	Date	Intr./Appd.
	Modified from		

VDR6350 / VDR8450
WATERCOOLED



1 : DRYER UNIT

The unit should be installed on a level floor capable of taking the weight of the dryer. Dimensions stated on this drawing are minimum distances. There must be a free space of 800mm / 32in around the dryer.

2 : COMPRESSED AIR PIPES

All pipes should be installed stress free to the dryer unit. All pipes should be installed so that there is no obstruction accessing the unit through the removing panels. Inlet pipe orientation must be straight or with a 90° upward bend to ensure equal air flow to all internal heat exchangers. Compressed air pressure should never exceed the dryers design pressure. It is recommended to install a full flow safety valve at the dryer inlet. The maximum total pipe length (including interconnecting piping between dryer and receiver) can be calculated as follows:
 $\Delta p = (L \times 450 \times Qc) / (d \times p)$

- L = length of pipe (m)
- Δp = pressure drop (recommended maximum = 0.1 bar / 1.5 psi)
- d = inner diameter of pipe (mm)
- p = absolute pressure at dryer outlet (bar(a))
- Qc = Free air delivery of the compressor (l/s)

3 : FILTER (optional)

It is recommended to install compressed air filter at dryer inlet to achieve air purity class: iso 8573 - 1 : 2010 [2 : - : -]
 The air filter has to be supported and can't be mounted to the dryer directly without extra supports.

4 : AIR RECEIVER (optional)

Should be installed in a frost free room on a solid, level floor. The preferred position depends of the most fluctuating flow.
 Alternative 1 : In front of the dryer when the air flow from the compressor fluctuates the most.
 Alternative 2 : Behind the dryer when the air demand fluctuates the most.

POWER SUPPLY

The cable has to be sized and installed by a qualified electrician.

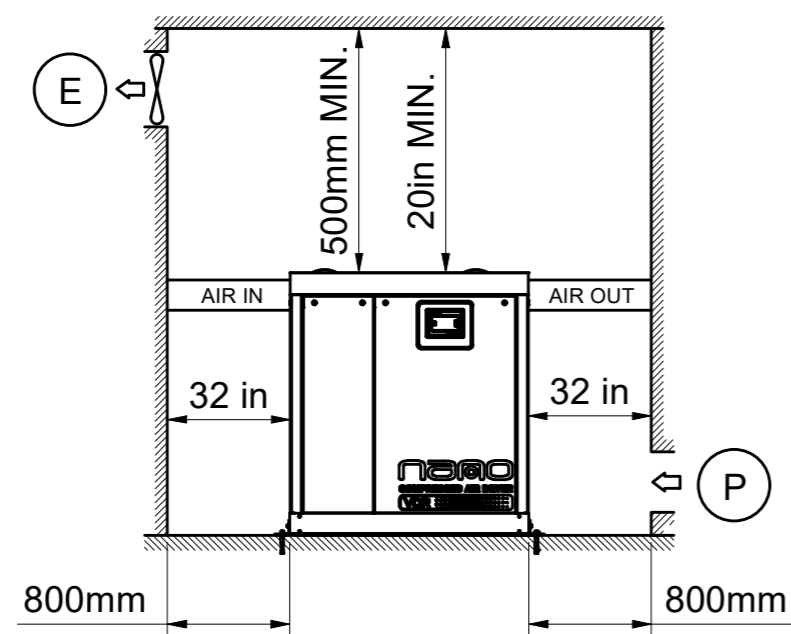
5 : VENTILATION (Water cooled dryer variant)

The inlet grid(s) (P) and ventilation fan (E) (if applicable) should be installed in such a way that natural circulation of air is guaranteed and recirculation of cooling air is avoided.

DRAIN PIPES

Drain pipes to drain collector must not dip into the water. For draining of pure condensate water, install an oil / water separator. Consult Nano.

VENTILATION PROPOSAL



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1			25/02/2022	User Agent
Ed	Position	Modified from	Date	Intr./Appd.

1839007672-M1	1
Parent 3D model	Ed. Version 3D

Tolerances, if not indicated, according to:								
STANDARD CLASS								
Name	DIMENS. INSTALL.		VDR6350 / VDR8450		Confidentiality Class acc. to 1102 K			
Material	Not Applicable		INSTALL. PROPOSAL		Internal			
Treatment	Not Applicable				INV			
Scale		1 : 50	Family		A2 Compare		Drawing owner	
Drawn by		INEMSI	Blank nr.		Replaces		APF	
Version Drwg			Blank wt		Kg / Fini wt.		N/A	
STATUS		Released	Des checked.		Prod checked.		Approved.	
					Date		12/11/2021	
				Designation				Sheet 2 / 2
				1839007672-01				