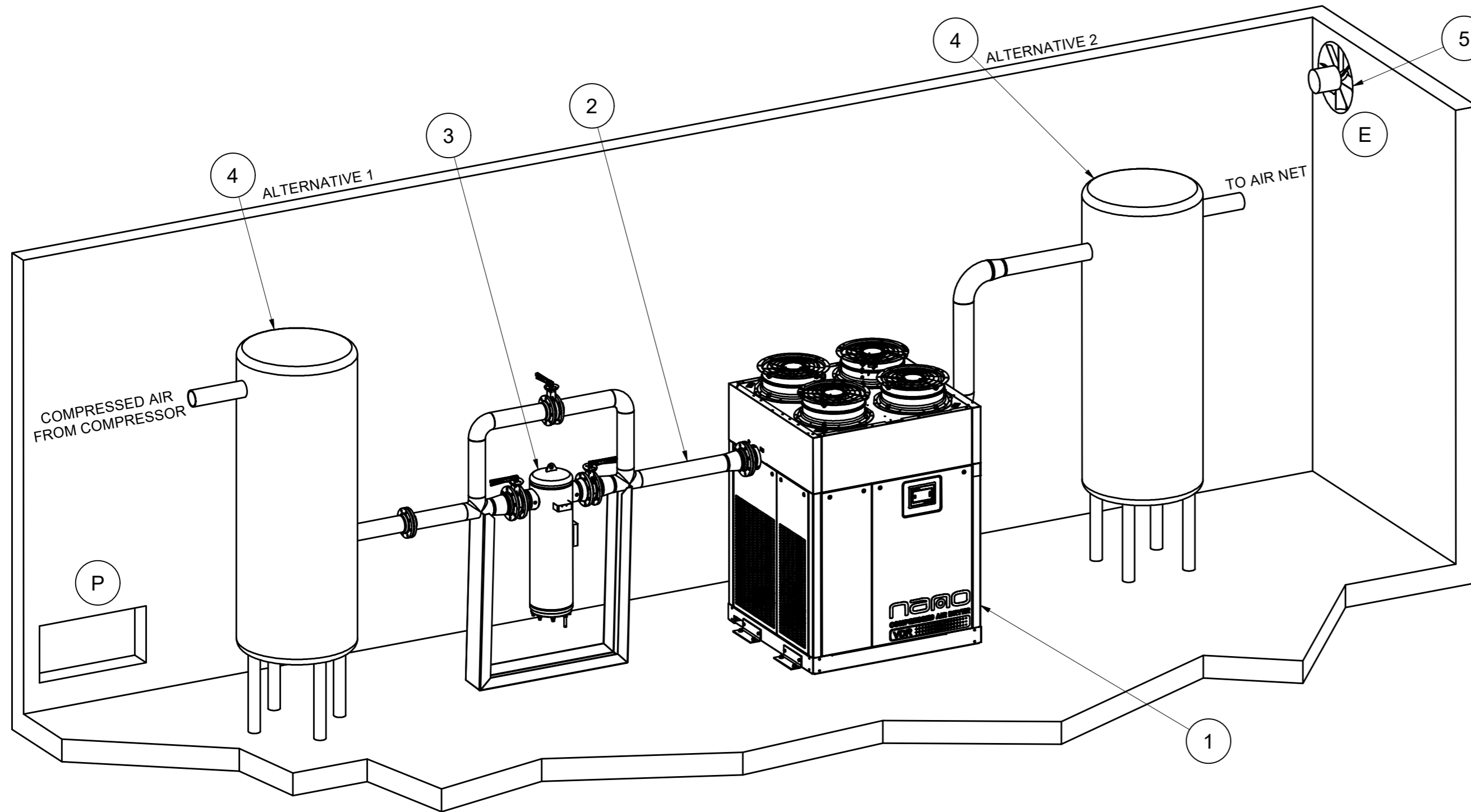


All materials supplied are in compliance with the requirements of the List of Prohibited Substances



**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)
- $\Delta p$  = 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**

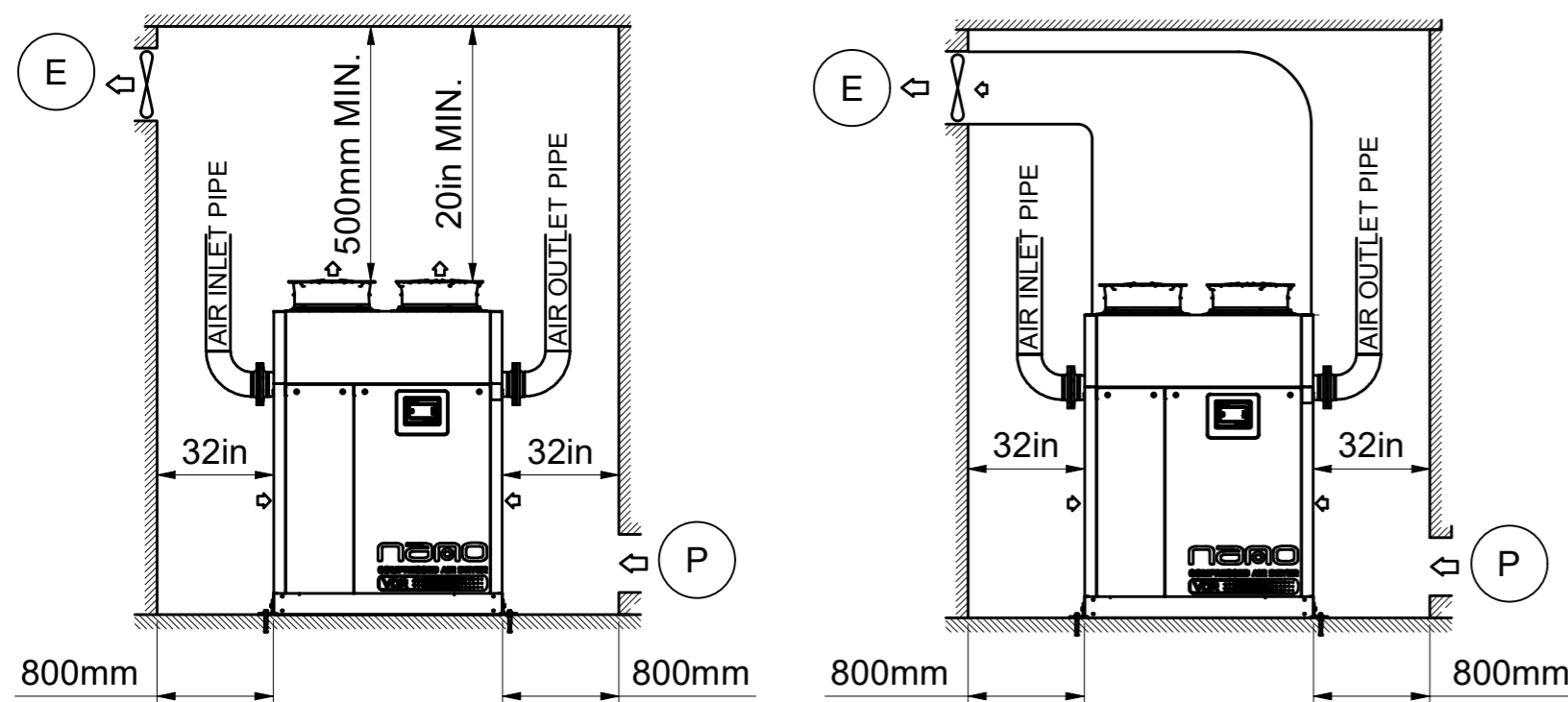
Drain pipes to drain collector must not dip into the water. For draining of pure condensate water, install an oil / water separator. Consult Nano.

Dryer Type / Ambient version	VENTILATION REQUIREMENTS			
	METRIC		IMPERIAL	
	Cooling air temp. limits	Max. cooling air flow	Cooling air temp. limits	Max. cooling air flow

VDR2600 / 46°C	0-46°C	31600 m³/h	32-115°F	18600 ft³/min
VDR3150 / 46°C	0-46°C	28600 m³/h	32-115°F	16830 ft³/min
VDR3700 / 46°C	0-46°C	28600 m³/h	32-115°F	16830 ft³/min
VDR4200 / 46°C	0-46°C	28600 m³/h	32-115°F	16830 ft³/min
VDR5050 / 40°C	0-40°C	28600 m³/h	32-104°F	16830 ft³/min

**VENTILATION PROPOSAL 1**

**VENTILATION PROPOSAL 2**

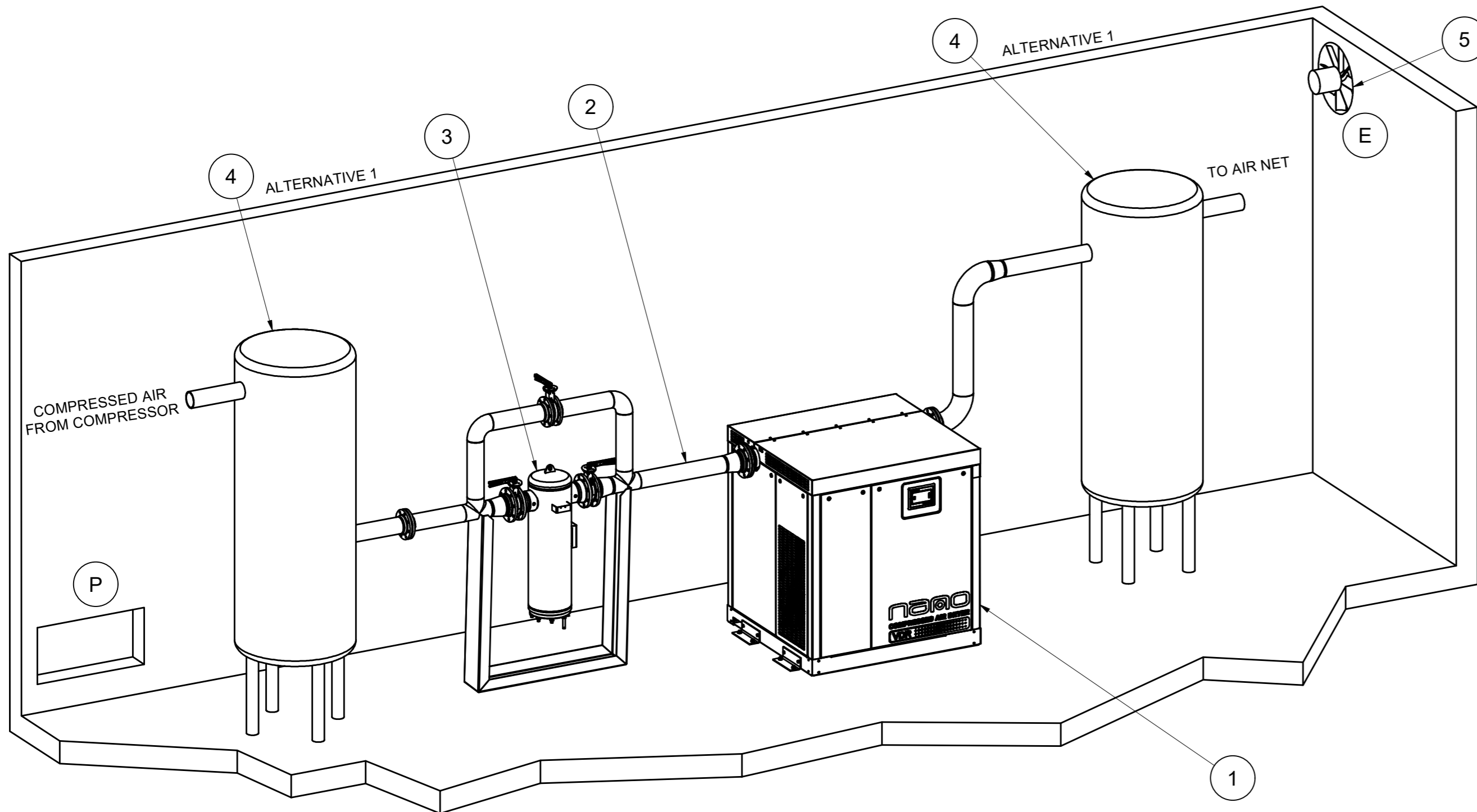


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Ed	Position	Modified from	Date	Intr./Appd.
1			25/02/2022	User Agent

1839007683-M1	1
Parent 3D model	Ed. Version 3D

Name		DIMENS. INSTALL. VDR 2600-5050 INSTALL. PROPOSAL		Confidentiality Class
Material		Not applicable		acc. to 1102 K Internal
Treatment		Not Applicable		INV
Scale		1:50		A2 Compare
Family				
Drawn by		INEMSI		Replaces
Blank nr.				
Version Drwg		Blank wt		Designation
Blank wt		Kg		
Des checked.		Prod checked.		Sheet 1 / 2
Approved.		Date		
Released		13/12/2021		1839007683-01



**1 : DRYER UNIT**

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- L = length of pipe (m)
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- 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**

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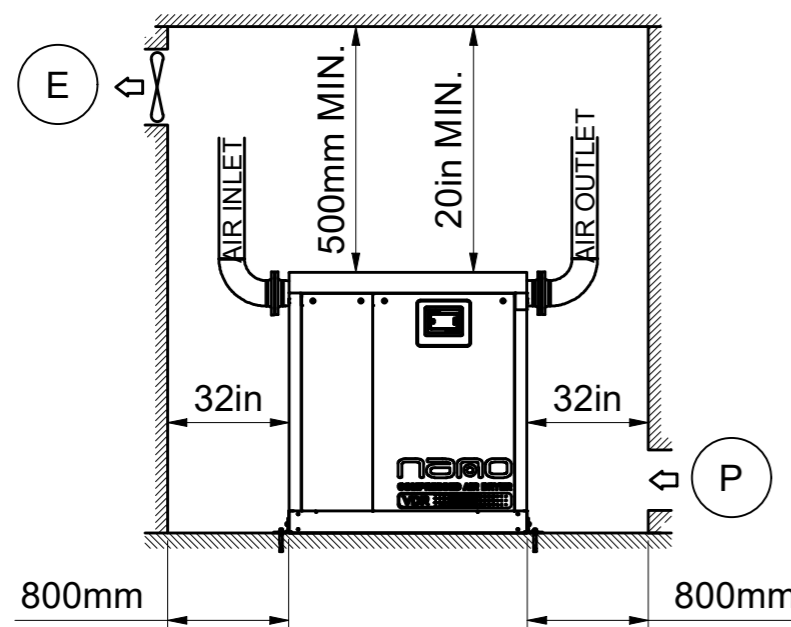
**5 : VENTILATION ( Air cooled dryer variant )**

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**DRAIN PIPES**

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**VENTILATION PROPOSAL**



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

1839007683-M1	1
Parent 3D model	Ed. Version 3D

Tolerances, if not indicated, according to:							
STANDARD CLASS							
Name	DIMENS. INSTALL. VDR 2600-5050 INSTALL. PROPOSAL		Confidentiality Class	acc. to 1102 K			
Material	Not applicable		Internal	INV			
Treatment	Not Applicable						
Scale 1 : 50		Family	A2 Compare		Drawing owner		
Drawn by INEMSI		Blank nr.	Replaces		APF		
Version Drwg		Blank wt	Kg	Fini wt.	25850.666 kg	Designation	
Des checked.		Prod checked.	Approved.	Date	13/12/2021		
Released				1839007683-01			
				Sheet		2 / 2	