



Let us take care of your air



# HYDRAULIC ROTARY VANE COMPRESSOR

[naili-europe.com](http://naili-europe.com)

# RELIABLE COMPRESSORS DEVELOPED WITH YOU, FOR YOU

## Naili, let us take care of your air

The word Naili is Chinese for endurance. This name is equivalent to the goal with which all compressors are designed and produced. Naili knows better than anyone how important compressed air is for an industrial process; standing still is not an option. Therefore the slogan: 'Let us take care of your air!' suits us perfectly. You can focus on your primary process. Naili has been manufacturing since 1999, but has already gained extensive knowledge and experience with rotary vane compressors in the years before. With our approximately 720 employees in our fast growing production facility we annually build more than 80,000 compressors, ranging from 1.5 kW to 220 kW.

Thanks to a broad customer base and years of intensive cooperation with the market, we have an unprecedented experience in producing high-quality compressors. In addition to the development and production of industrial compressors, this has led to the position of one of the market leaders in the field of rotary vane compressors and oil-free piston compressors for electrically driven vehicles. The 50,700 m<sup>2</sup> production facility has its own aluminium foundry, PM motor production, CNC machinery, paint shop, R&D, quality control and assembly line with testing facilities for 100 % final testing.

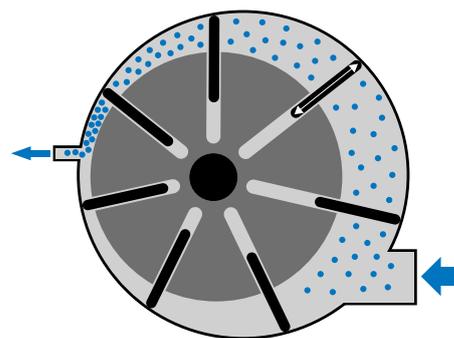
## Hydraulic rotary vane compressor

Naili has developed the AH-series for mobile applications where electricity is not available, but hydraulics are. By replacing the electric motor with a hydraulically driven motor, the compressor can run along with the hydraulic circuit of your vehicle. The AH-series compressors are built on a frame for easy installation. Depending on the available pressure and flow of the hydraulics, it is determined which type of motor must be installed. This must be evaluated in all situations. Consult your dealer for this.

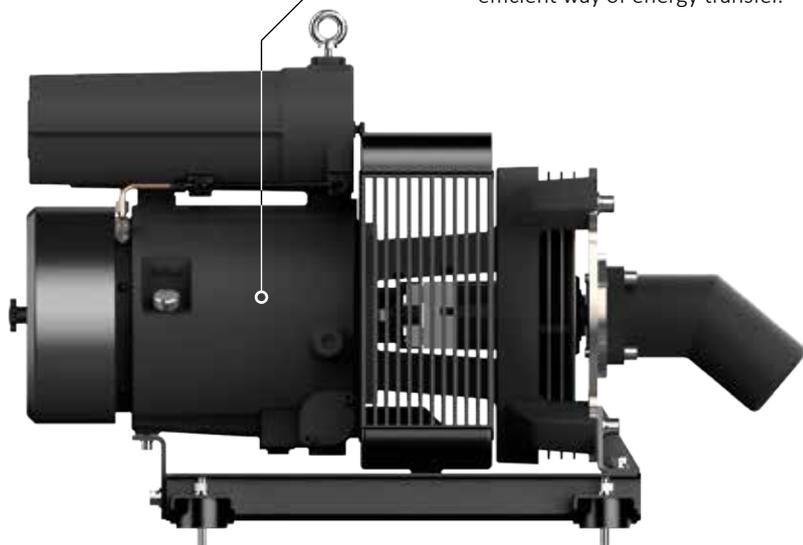


### Air end

The air end is the heart of the compressor. The rotor with which the compressed air is generated is connected in-line with the hydraulic driven motor. This is the most efficient way of energy transfer.



An extremely reliable technique is used in a rotary vane compressor. An hydraulic driven motor is connected in-line to a rotor in which (steel) vanes are placed. The rotating movement pushes the vanes outwards. The rotor is eccentrically placed in the housing and ensures that the vanes form chambers around the rotor. As the chambers are reduced, pressure builds up.

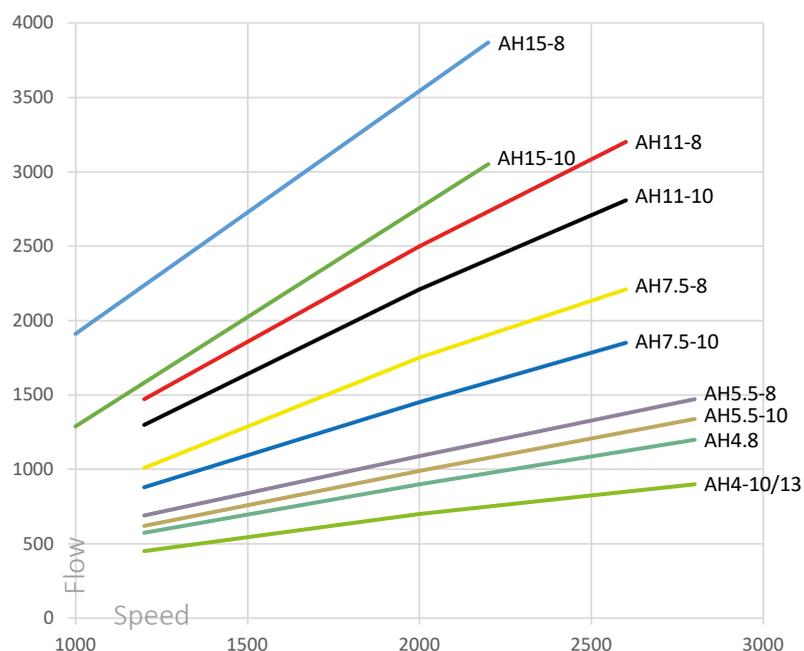


# Technical specifications

Description	Values	AH4	AH5.5	AH7.5	AH11	AH15
Ambient temperature	°C			0-45		
8 Bar	m <sup>3</sup> /min @1500 RPM	0.68	0.8	1.25	1.65	2.75
10 Bar	m <sup>3</sup> /min @1500 RPM	0.53	0.65	1.15	1.8	2.05
Residual oil	PPM			≤3		
Minimum	m <sup>3</sup> /min	0.68	0.9	1.39	1,96	2.71
Maximum	m <sup>3</sup> /min	1.21	1,44	2.52	3.6	5.5
RPM	min/rpm	1200	1200	1100	1100	1100
RPM	max/rpm	2800	2800	2600	2600	2600
Oil volume	L	2.5	2.5	3.5	3.5	10
Connection output	BSP	1/2"	1/2"	3/4"	3/4"	1"
Length	mm	588	588	736	736	820
Width	mm	350	350	468	468	520
Heighth	mm	532	532	593	593	816
Weight	kg	60kg	60kg	100kg	100kg	140kg



## Flow rate (l/min) AH-series

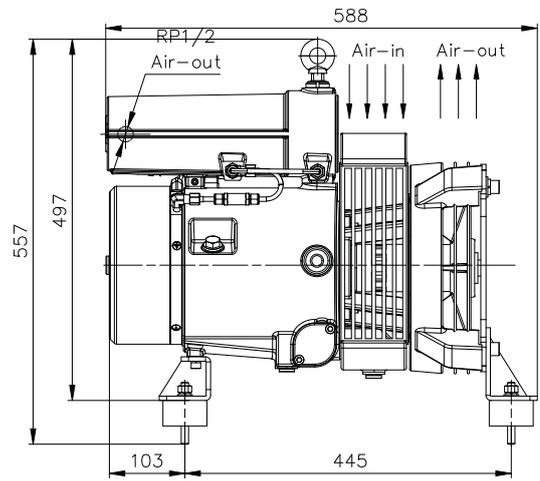
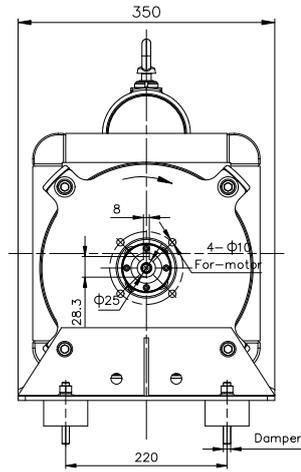


## AHF series with external cooler

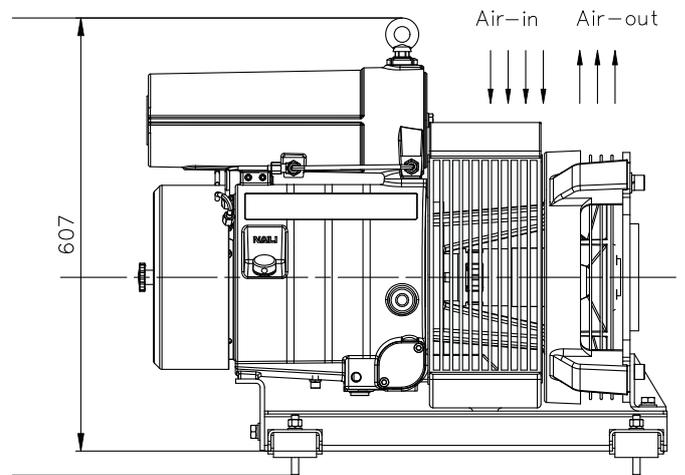
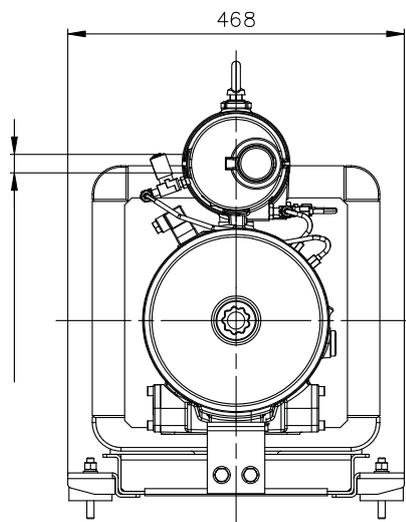
For heavier applications we developed the AHF-series. The AHF-series is equipped with an external oil cooler. The fan in this cooler is hydraulically driven and rotates in the compressor circuit, so no additional connections are necessary. This series is available in four different models from 15 to 30kw.



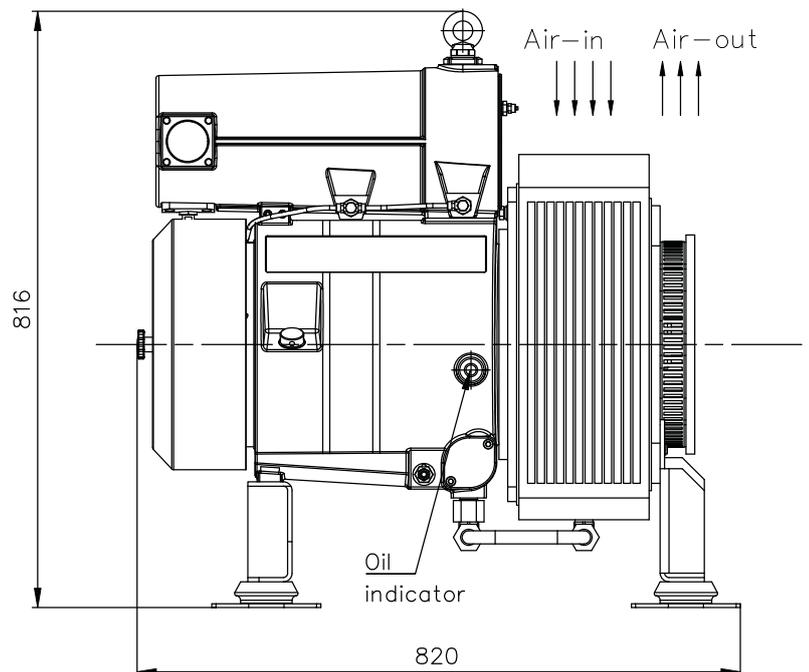
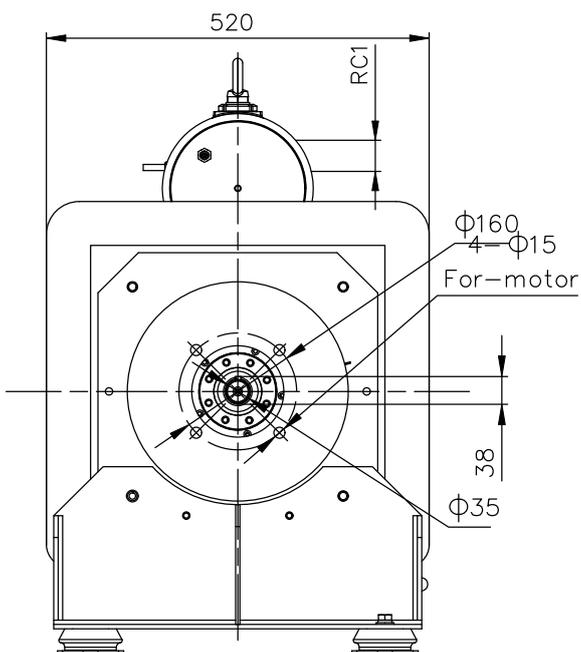
### 4kW / 5.5kW



### 7.5kW / 11kW



### 15kW



Dimensions in millimeters

## INDUSTRY

### PB-series (7.5 – 55kW) VSD

The PB-series is equipped with a sound-insulating cabinet, making the compressor very silent in use. You can therefore position the compressor close to a workplace, in accordance with occupational health and safety regulations. The frequency controller ensures optimum energy use. These compressors are equipped with an intuitive control panel that supports the user. You have the option to set up each compressor in cascade (max. 16) with this control panel. In this way you achieve the desired air output and you observe the correct load per machine. The temperature of the outgoing compressed air is approximately 10°C above ambient temperature thanks to the large radiator. This makes it possible to connect the compressor directly with a compressed air dryer, before storing the compressed air in a tank. Because a rotary vane compressor has few parts subject to wear, the maintenance of this machine is minimal when compared to other techniques. With a Naili PB-series rotary vane compressor, you have a very reliable, maintenance-friendly and low noise compressor, suitable for a long service life.



### AB-series (4 – 55 kW)

The AB-series is equipped with a sound-insulating cabinet, making the compressor very silent in use. You can therefore position the compressor close to a workplace, in accordance with occupational health and safety regulations.

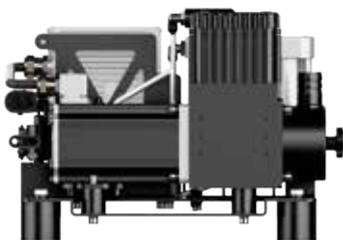


### A-series (4 – 55 kW)

The A-series is direct accessible for fast maintenance. When you are in the market for a reliable compressor that can be serviced instantly, the A-series is your choice.



## OIL-FREE



### APVF series

The APVF series is unique in its class, with a 24v control this series can be used in almost any mobile application. The compressor is oil-free and requires little maintenance. With a yield of 25L/min and a built-in dryer, the moisture is immediately removed from your compressed air, so that condensation does not have a chance to damage your system.

### TV-series (1.5 – 4 kW)

The TV-series has been developed from the need for less maintenance and lower maintenance costs. This compressor does not use oil for lubrication/cooling which eliminates the largest cause for maintenance and malfunctions. An additional advantage for you is that the compressor can work continuously and does not require a cooling time. The TV-series is available with both an induction motor and a PM motor.



**Consult us for your local dealer  
or visit our website for more information**



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