

20 HP 3-IN-1 AIR COMPRESSOR

PM VSD screw compressor · refrigerated dryer · 500 L receiver

PRODUCT OVERVIEW

Compressor, dryer and air tank in one package. A 15 kW permanent-magnet motor drives the screw air end directly; the Inovance inverter matches its speed to your air demand.



Controller



Dryer and filter side

20 HP	81 CFM	500 L	220 V
15 kW PM VSD motor	at 116 psi (2.30 m³/min)	ASME receiver (132 gal)	60 Hz, 3-phase

KEY SPECIFICATIONS

Motor	20 HP (15 kW) permanent magnet, IP55
Speed control	Variable speed, Inovance inverter
Air at 116 psi (8 bar)	81 CFM (2.30 m³/min)
Air at 145 psi (10 bar)	71 CFM (2.00 m³/min), option
Air treatment	Refrigerated dryer, 3-stage filters, auto drains
Receiver	500 L (132 US gal), ASME certified
Supply	220 V / 60 Hz / 3-phase; dryer 220 V single phase
L × W × H	67.3 × 31.9 × 67.7 in
Weight	530 kg (1,168 lb)
Warranty	1 year machine, 2 years air end

CHOOSE THE PRESSURE WHEN YOU ORDER

116 psi (8 bar) is the standard build. The 145 psi (10 bar) build gives 71 CFM instead of 81 CFM. CFM values are converted from the factory's m³/min.

IDEAL APPLICATIONS

- Shop air for pneumatic tools and equipment within the rated air delivery.
- Stone fabrication: CNC, saws, polishers and air-powered tools.
- Production and maintenance shops that need dry, filtered air.
- Indoor installations with a three-phase 220 V supply.

INCLUDED CONFIGURATION

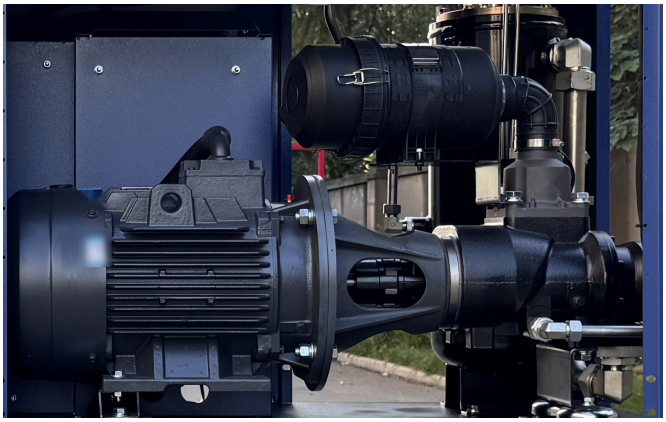
- 20 HP (15 kW) permanent-magnet motor, direct drive, Inovance inverter.
- Oil-injected rotary-screw air end, air cooled.
- PLC controller with display and emergency stop.
- Built-in refrigerated dryer (Panasonic refrigeration compressor).
- Three-stage line filters (C, T, A grade) with automatic drains.
- 500 L ASME receiver and ASME oil-gas separator.
- Next Level front panels, logo and nameplates; parts booklet.
- Export wooden crate; online owner manual.

BEFORE YOU ORDER

Confirm a 220 V / 60 Hz three-phase feed for the compressor and a separate 220 V single-phase feed for the dryer, the pressure you need (8 or 10 bar), and the floor space, ventilation and service access. Plan where the condensate goes.

COMPRESS. DRY. STORE.

Three machines in one package, ready for one air line.



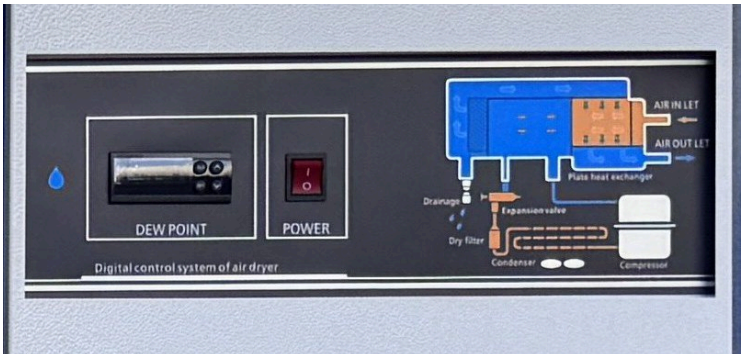
Direct-drive PM VSD

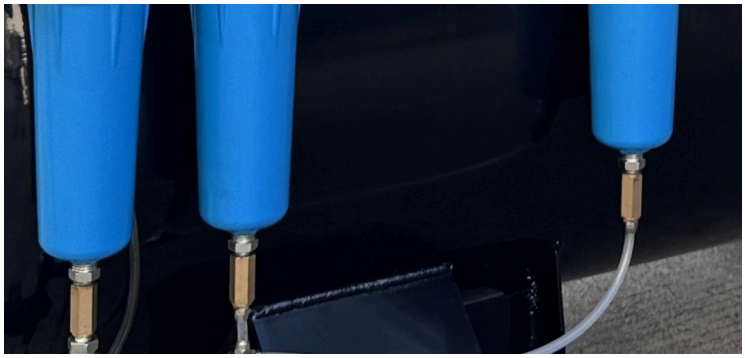
The 15 kW permanent-magnet motor is coupled straight to the rotary-screw air end: no belts to tension or replace. The Inovance inverter changes the motor speed as your air demand changes, so the compressor runs only as fast as the shop needs.

Motor	20 HP (15 kW), permanent magnet
Protection	IP55, Class F insulation, SKF bearings
Speed control	Inovance inverter (VSD)
Cooling	Air cooled

DRY AIR FROM THE START

Compressed air leaves the air end hot and wet. The built-in refrigerated dryer cools it to drop the water out, the three filter stages catch oil and particles, and automatic drains empty the condensate.





Built-in refrigerated dryer.

Panasonic refrigeration compressor, aluminum plate heat exchanger with a built-in water separator, and an LED display with real-time dew point, run time and alarm codes.

Three filter stages. Auto drains.

C, T and A grade filter elements in series, each with an automatic drain. Change the elements every 4,000 hours.

ASME vessels

The 500 L receiver and the oil-gas separator are ASME certified.

Inovance inverter

The variable-speed drive sits in its own electrical compartment behind the front door.

Photographs: the delivered Next Level 30 HP. The 20 HP has the same layout and finish; its size is on page 4.

TECHNICAL SPECIFICATIONS

20 HP 3-in-1 Air Compressor · technical data

PACKAGE

Configuration	Rotary-screw air compressor, refrigerated air dryer, three-stage line filters and receiver on one base
Compression	Oil-injected rotary screw, air cooled
Drive	Direct drive: permanent-magnet motor coupled to the air end

PRESSURE AND AIR DELIVERY

Working pressure, standard	116 psi (8 bar)
Free air delivery, 8 bar	81 CFM (2.30 m³/min) at 116 psi (8 bar)
Working pressure, option	145 psi (10 bar), chosen at order
Free air delivery, 10 bar	71 CFM (2.00 m³/min) at 145 psi (10 bar)

MOTOR AND CONTROL

Speed control	Variable speed (VSD), Inovance inverter
Motor protection / insulation	IP55 / Class F
Motor bearings	SKF
Controller	PLC controller with display; emergency stop

AIR TREATMENT

Air dryer	Built-in refrigerated dryer with Panasonic refrigeration compressor
Heat exchanger	Aluminum alloy plate, max. 16 bar, foam insulated, built-in water separator
Dryer controls	LED display: real-time dew point, run-time record, self-diagnostic alarm codes
Expansion valve	Constant-pressure (bypass) valve

AIR TREATMENT (CONT.)

Line filters	Three stages: C, T and A grade elements
Condensate	Automatic drains

AIR STORAGE

Receiver	132 US gal (500 L), horizontal, ASME certified
Oil-gas separator	ASME certified

ELECTRICAL

Compressor supply	220 V / 60 Hz / 3-phase
Dryer supply	220 V / 60 Hz / single phase, separate feed (not 120 V)

SIZE AND CONNECTIONS

L × W × H	67.3 × 31.9 × 67.7 in (1,710 × 810 × 1,720 mm)
Weight	1,168 lb (530 kg)
Air outlet	G 3/4
Noise level	66 ± 2 dB(A)

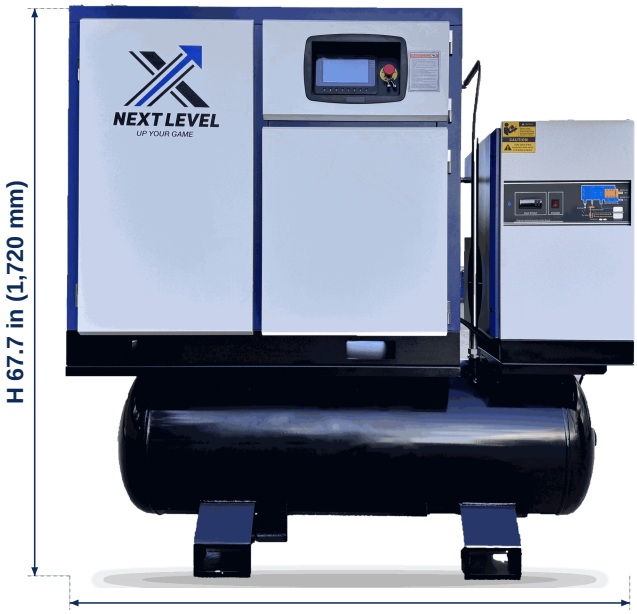
SERVICE AND WARRANTY

Air filter / oil separator	Every 3,000 h
Oil filter	First at 500 h, then every 3,000 h
Line filter elements	Every 4,000 h
Warranty	1 year whole machine, 2 years air end

Factory quotation, September 2026. Free air delivery is the factory's m³/min; CFM values are converted (× 35.315). Weight and dimensions are the factory's values for the package. U.S. values first, metric in brackets. Specifications are subject to change without notice.

SIZE IT UP.

Overall dimensions of the 20 HP 3-in-1 Air Compressor, shown on the real product.



CONNECTIONS

Dryer supply	220 V / 60 Hz / single phase

Photograph of the Next Level product; overall dimensions from the factory data. The 3D model is on the product page for 3D, VR headsets and phone AR (place it on your floor at true size).

POWER. AIR. SPACE.

Plan the installation before the compressor arrives.

CHOOSING THE SIZE

	15 HP	20 HP	30 HP	40 HP	50 HP
Motor	11 kW	**15 kW**	22 kW	30 kW	37 kW
Air, 116 psi (8 bar)	60 CFM 1.70 m³/min	**81 CFM** **2.30 m³/min**	120 CFM 3.40 m³/min	177 CFM 5.00 m³/min	226 CFM 6.40 m³/min
Air, 145 psi (10 bar)	57 CFM 1.60 m³/min	**71 CFM** **2.00 m³/min**	113 CFM 3.20 m³/min	141 CFM 4.00 m³/min	191 CFM 5.40 m³/min
Receiver	500 L	**500 L**	500 L	500 L	500 L
Outlet	G 3/4	**G 3/4**	G 1	G 1	G 1 1/2
L × W × H, mm	1,710×810×1,720	**1,710×810×1,720**	1,900×970×1,840	1,900×970×1,840	1,900×1,005×2,040
Weight	520 kg	**530 kg**	650 kg	650 kg	800 kg

All five: oil-injected direct-drive PM VSD screw compressor, built-in refrigerated dryer, three-stage filters, 500 L ASME receiver, 220 V / 60 Hz. CFM converted from the factory's m³/min.

Site: separate 220 V / 60 Hz three-phase (compressor) and single-phase (dryer) feeds, level floor, fresh-air ventilation, service clearance and a safe place for the oily condensate. Start the dryer 5 minutes before the compressor.