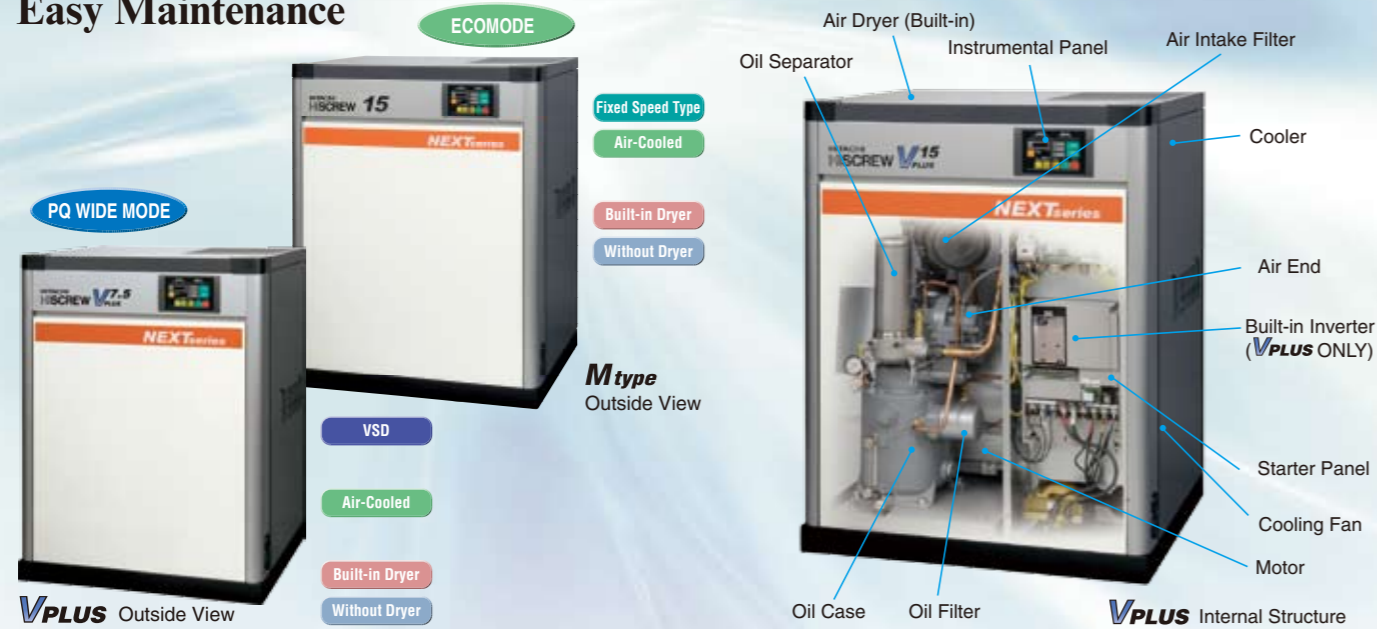


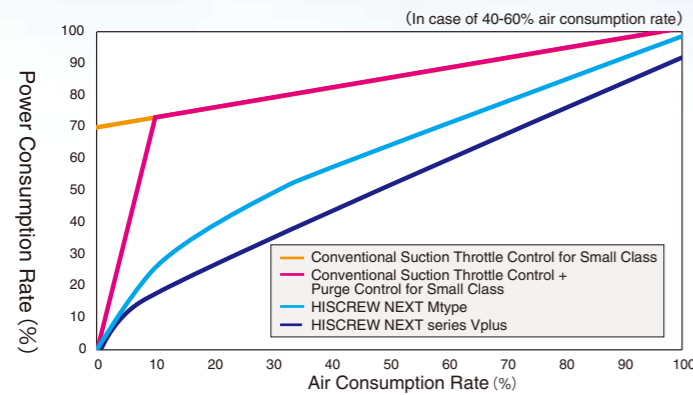
VPLUS, Mtype

Compact type with inherited **NEXTseries** technology
Pursuit of Excellent Economic Efficiency, Environmental Performance,
Easy Maintenance

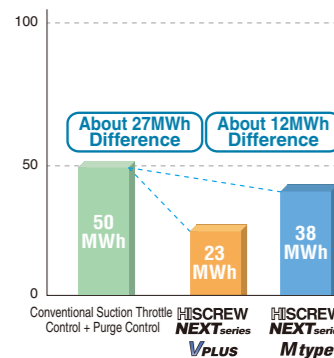


Energy-Saving

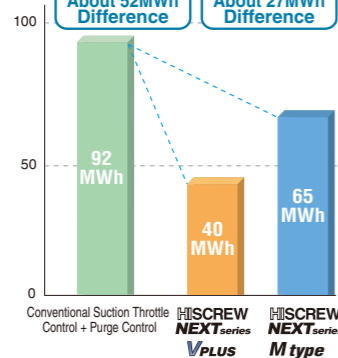
In addition to high performance of the compressor itself, overall energy-saving can be achieved. Compared with the common suction throttle valve type, 30–40% energy-saving is possible.



Example of Annual Power Consumption (10hp, air consumption rate 40%)



Example of Annual Power Consumption (20hp, air consumption rate 40%)



Calculation Condition: (1) Pressure Setting: NEXT-Vplus 106psig Others 120psig
(2) 6,000hr/year Operation

New V-Belt Adjustment Mechanism

Tension of V-belt can be adjusted by 2 bolts.*
It is much easier to carry out the maintenance.



Easy Cleaning of Cooler

Possible to access the cooler by ONLY removing the right cover.

Dust-Proof Starter Panel Structure

Structure of independent suction and ventilation duct, separated from the internal air ventilation of the air compressor is adopted. Moreover, it is possible to change the cooling fan of the inverter* easily.

*Ask your distributor to carry out the service.

STANDARD SPECIFICATIONS

VPLUS (Variable Speed Control Type)

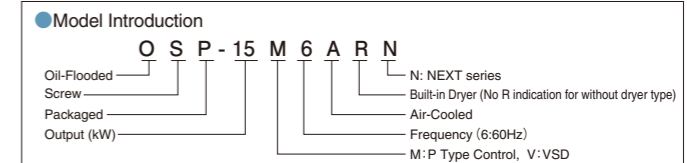
| Item | Model | OSP-7.5VA (R) N | OSP-11VA (R) N | OSP-15VA (R) N |
|------------------------------------|-----------------------------|---|--|--|
| Cooling Method | | Air Cooled | | |
| Motor Nominal Output | | 10 hp / 7.5 kW | 15 hp / 11 kW | 20 hp / 15 kW |
| Rated | Discharge Pressure | 120 psig / 0.83 MPa | | |
| | Discharge Capacity | 36 CFM / 1.03 m ³ /min | 56 CFM / 1.6 m ³ /min | 74 CFM / 2.1 m ³ /min |
| PQ WIDE MODE | Discharge Pressure | 102 psig / 0.7 MPa 131 psig / 0.9 MPa | 102 psig / 0.7 MPa 131 psig / 0.9 MPa | 102 psig / 0.7 MPa 131 psig / 0.9 MPa |
| | Discharge Capacity | 41 CFM / 1.15 m ³ /min 34 CFM / 0.96 m ³ /min | 62 CFM / 1.75 m ³ /min 53 CFM / 1.5 m ³ /min | 83 CFM / 2.35 m ³ /min 71 CFM / 2.0 m ³ /min |
| Working Range of PQ WIDE MODE | | 102–131 psig / 0.7–0.9 MPa | | |
| Suction Pressure/Temperature | | Atmospheric Pressure +32–104°F (41–104°F) / 0–40°C (5–40°C) | | |
| Temperature of Discharge Air | | Ambient Temperature +27(18)°F / +15(10)°C or below | | |
| Driving System | | 4-Pole TEFC Motor with V-Belt Driven by Inverter | | |
| Capacity Control Type | | V++P type | | |
| Starter Type | | Soft Start | | |
| Lubricating Oil | | New HISCREW OIL 2000 | | |
| Lubricating Oil Filling Amount | | 1.3 gal / 5 L | 1.6 gal / 6 L | 1.8 gal / 7 L |
| Air Dryer | Outlet Dew Point | 50°F / 10°C Under Pressure | | |
| | Refrigerator Nominal Output | 0.4 hp / 0.3 kW | 0.7hp / 0.5kW | |
| | Coolant Used/Control Method | R407C / Capillary Tube | | |
| Discharge Air Pipe Diameter | | Rc 3/4 | Rc 1 | |
| External Dimension (WxDxH) | | 33"×30"×46" / 840mm×760mm×1,175mm | 37"×30"×49" / 930mm×770mm×1,250mm | |
| Weight | | 650 (694) lb / 295 (315) kg | 761 (816) lb / 345 (370) kg | 794 (860) lb / 360 (390) kg |
| Noise Level (4.9ft from the front) | | 53 dB [A] | 55 dB [A] | 56 dB [A] |

Mtype (Fixed Speed Type)

| Item | Model | OSP-7.5M6A (R) N | OSP-11M6A (R) N | OSP-15M6A (R) N |
|------------------------------------|-----------------------------|---|---|---|
| Cooling Method | | Air Cooled | | |
| Motor Nominal Output | | 10 hp / 7.5 kW | 15 hp / 11 kW | 20 hp / 15 kW |
| Discharge Pressure | | 120 <102> psig / 0.83 <0.7> MPa | | |
| Discharge Capacity | | 36 <41>CFM / 1.03 <1.15> m ³ /min | 56 <62>CFM / 1.6 <1.75> m ³ /min | 74 <83>CFM / 2.1 <2.35> m ³ /min |
| Suction Pressure/Temperature | | Atmospheric Pressure +32–104°F (41–104°F) / 0–40°C (5–40°C) | | |
| Temperature of Discharge Air | | Ambient Temperature +27(18)°F / +15(10)°C or below | | |
| Driving System | | 4-Pole TEFC Motor with V-Belt Drive | | |
| Capacity Control Type | | U + I + P type | | |
| Starter Type | | Full Voltage Starting | | |
| Lubricating Oil | | New HISCREW OIL 2000 | | |
| Lubricating Oil Filling Amount | | 1.3 gal / 5 L | 1.6 gal / 6 L | 1.8 gal / 7L |
| Air Dryer | Outlet Dew Point | 50 °F / 10°C Under Pressure | | |
| | Refrigerator Nominal Output | 0.4 hp / 0.3 kW | 0.7 hp / 0.5 kW | |
| | Coolant Used/Control Method | R407C / Capillary Tube | | |
| Discharge Air Pipe Diameter | | Rc 3/4 | Rc 1 | |
| External Dimension (WxDxH) | | 33"×30"×46" / 840mm×760mm×1,175mm | 37"×30"×49" / 930mm×770mm×1,250mm | |
| Weight | | 639 (683) lb / 290 (310) kg | 750 (805) lb / 340 (365) kg | 772 (827) lb / 350 (375) kg |
| Noise Level (4.9ft from the front) | | 53 dB [A] | 55 dB [A] | 56 dB [A] |

Notes:

- Capacity is the converted value at its inlet condition. For guaranteed values, contact your nearest dealer or HITACHI local representative offices.
- Noise level is measured value at 4.9ft in front and 3.3ft height in an anechoic room, under full load operation. It may vary in different operation conditions or environments. For V plus type, 3 dB[A] is increased when PQ WIDEMODE is ON.
- To reduce the pressure fluctuation it is necessary to install an air receiver tank of enough volume.
- Earth leakage circuit breaker is NOT attached. Prepare it in advance.
- Pressure is indicated as the gauge pressure.
- () indicates the values of Built-in Dryer type.
- Dew point of outlet air of built-in dryer models is under 86°F of ambient temperature, 113°F of inlet air temperature and rated pressure. When PQ WIDEMODE of V plus type with Built-in Dryer is ON, the dew point of outlet air at minimum operation pressure is higher than the one above by 5.4°F.
- It is necessary to install an air dryer or filter of larger size when operated pressure is below the pressure range of PQ WIDEMODE for V plus. Contact your nearest dealer or HITACHI local representative offices.
- Dew point gets much worse if operated under 87psig with Built-in Dryer.
- Air capacity of Built-in Dryer may decrease by Max. 3% when drain condensates.
- <> shows values of capacity under different discharge pressure.
- Temperature of discharge air may vary in different environments.



Line-Up
Type
Instruction
Specification
In Common
NEXTseries 10–20hp (7.5–15kW)
NEXTseries 30/50hp (22/37kW)
NEXTseries 75/100hp (55/75kW)
NEXTseries 30–100hp (22–75kW)
Option
2000series 135hp (100kW)
2000series Dual type 200hp (150kW)
2-stage 200–300hp (150–240kW)
V-M Combination System
Precaution