

# FLORIDA POWERTRAIN

& HYDRAULICS, INC.

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# Above-deck compressor modules

## PERFORMANCE FEATURES — RECIPROCATING MODELS

30 and 40 cfm @ up to 175 psi  
 100 percent continuous duty  
 Available for most open-center or closed-center hydraulic systems  
 Best value — highest air volume (cfm) and pressure in its class  
 Built for durability and reliability  
 Extended air pump warranty (up to two years) available with use of Ingersoll Rand All Seasons Select lubricant  
 Built-in hydraulic cooling  
 Air storage tank kits available as an accessory (10 & 22 gallon)

## PERFORMANCE FEATURES — ROTARY SCREW MODELS

5-year / 10,000-hour extended airend warranty available  
 Choice of gauge panel location for driver or passenger side mounting (VHP90CMH only)  
 Continuous airflow eliminates need for air storage tank  
 Cost-effective — more air volume (cfm) for your dollar  
 Easy access for maintenance  
 Instant power upon arrival  
 More air volume (cfm) per square foot of mounting area  
 Onboard air allows hitch to be available for towing equipment  
 Hydraulic cooler available as an accessory option  
 Protective 3,500-psig hydraulic system inlet relief valve

## RECIPROCATING MODELS

| <u>MODEL</u>                        | <u>VHP30RMH</u> | <u>VHP40RMH</u> |
|-------------------------------------|-----------------|-----------------|
| Max cfm – cfm (m <sup>3</sup> /min) | 30 (0.84)       | 40 (1.13)       |
| Max psi – psi (bar)                 | 175 (12.06)     | 175 (12.06)     |
| Hydraulic – gpm (L/min)             | 8.6 (32.55)     | 12.7 (48.07)    |
| Hydraulic – psi (bar)               | 2,100 (144.78)  | 2,250 (155.13)  |

## DIMENSIONS

|                        |            |            |
|------------------------|------------|------------|
| Length – in (mm)       | 28.1 (714) | 28.1 (714) |
| Width – in (mm)        | 21.7 (551) | 21.7 (551) |
| Height – in (mm)       | 19.1 (485) | 19.1 (485) |
| Weight (wet) – lb (kg) | 360 (163)  | 360 (163)  |
| Weight (dry) – lb (kg) | 357 (162)  | 357 (162)  |

## ROTARY SCREW MODELS

| <u>MODEL</u>                        | <u>HP60CMH</u> | <u>VHP90CMH</u> |
|-------------------------------------|----------------|-----------------|
| Max cfm – cfm (m <sup>3</sup> /min) | 60 (1.70)      | 90 (2.54)       |
| Max psi – psi (bar)                 | 150 (10.34)    | 175 (12.06)     |
| Hydraulic – gpm (L/min)             | 18.1 (68.5)    | 29.5 (111.67)   |
| Hydraulic – psi (bar)               | 2,295 (158.23) | 2,520 (173.74)  |

## DIMENSIONS

|                        |            |            |
|------------------------|------------|------------|
| Length – in (mm)       | 28.7 (729) | 28.5 (724) |
| Width – in (mm)        | 21.9 (557) | 20.6 (523) |
| Height – in (mm)       | 23.6 (600) | 22 (559)   |
| Weight (wet) – lb (kg) | 336 (152)  | 342 (155)  |
| Weight (dry) – lb (kg) | 328 (149)  | 328 (149)  |

# Below-deck compressor modules

## **COMPRESSOR SYSTEMS**

| <b>CATEGORY</b>          | <b>CATEGORY I</b> | <b>CATEGORY II</b> | <b>CATEGORY II (HEAVY-DUTY)</b> |
|--------------------------|-------------------|--------------------|---------------------------------|
| Air Capacity Range – cfm |                   |                    |                                 |
| Clockwise                | 30 – 90           | 100 – 185          | 185 - 220                       |
| Counter Clockwise        | 90                | 100 – 160          |                                 |
| Operating Pressure – psi |                   |                    |                                 |
| Clockwise                | 100 - 175         | 100 – 205          | 100 - 205                       |
| Counter Clockwise        | 100 - 205         | 100 – 205          |                                 |
| Max Input Speed – rpm    |                   |                    |                                 |
| Clockwise                | 2817              | 2020               | 2388                            |
| Counter Clockwise        | 1826              | 3191               |                                 |

## **TYPICAL ENGINE SPEED:**

|                          |      |      |      |
|--------------------------|------|------|------|
| Class 3 – 5 trucks – rpm |      |      |      |
| Clockwise                | 1728 | 1669 | 1974 |
| Counter Clockwise        | 1200 | 2072 |      |
| Class 6 – 7 trucks – rpm |      |      |      |
| Clockwise                | 1750 | 1255 | 1483 |
| Counter Clockwise        | 1163 | 2032 |      |
| Oil Capacity – gal       |      |      |      |
| Clockwise                | 2    | 5.5  | 5.5  |
| Counter Clockwise        | 2    | 5.5  |      |

## **APPROXIMATE DIMENSIONS:**

|                               |                 |                 |                 |
|-------------------------------|-----------------|-----------------|-----------------|
| Compressor – in               |                 |                 |                 |
| Clockwise                     | 15L X 9W X 11H  | 20L X 13W X 13H | 20L X 13W X 13H |
| Counter Clockwise             | 19L X 13W X 15H | 19L X 13W X 15H |                 |
| Separator Tank – in           |                 |                 |                 |
| Clockwise                     | 6D X 26L        | 12D X 26L       | 12D X 26L       |
| Counter Clockwise             | 6D X 26L        | 12D X 26L       |                 |
| Separator Element – in        |                 |                 |                 |
| Clockwise                     | 4D X 12H        | 5.5D X 16H      | 5.5D X 16H      |
| Counter Clockwise             | 4D X 12H        | 5.5D X 16H      |                 |
| Compressor Oil Filter – in    |                 |                 |                 |
| Clockwise                     | 4D X 7H         | 4D X 9H         | 4D X 9H         |
| Counter Clockwise             | 4D X 7H         | 4D X 9H         |                 |
| Fan/Cooler Assembly – in      |                 |                 |                 |
| Clockwise                     | 19L X 17W X 9T  | 20L X 18W X 9T  | 26L X 22W X 12T |
| Counter Clockwise             | 9L X 17W X 9T   | 20L X 18W X 9T  |                 |
| Water/Oil Heat Exchanger – in |                 |                 |                 |
| Clockwise                     | 13L X 5W X 4H   | 14L X 5W X 5H   | N/A             |
| Counter Clockwise             | 13L X 5W X 4H   | 14L X 5W X 5H   |                 |
| Weight – lbs                  | 400             | 425             | 450             |

### **SAFETY EQUIPMENT**

- High-temperature shutdown switch with reset
- PTO safety engagement system
- Safety relief valve
- Minimum pressure valve
- Automatic blowdown valve
- Automatic venting oil fill plug

### **INSTRUMENTATION**

- Hour meter
- Temperature gauge
- Air pressure gauge
- Air cleaner restriction indicator (optional)

### **FEATURES & BENEFITS**

- Ingersoll Rand oil-flooded, rotary screw compressor
- Truly proportional electronic engine speed control available for most applications
- Patented water-cooled system has no moving parts, requires no maintenance
- 10-micron, easy-change, spin-on oil filter with bypass
- External, spin-on separator element for easy maintenance
- Minimum pressure valve provides air capacity range capability
- No additional engine, running gear, or enclosure to maintain
- No risk of theft
- No insurance or licensing fees
- More mobility in traffic or tight jobsites
- Free hitch for towing alternate equipment
- Airend warranty: Standard warranty — 2 years or 4,000 hours of operation
- Extended airend warranty — 5 years or 10,000 hours of operation (optional)



# Electrical accessory specifications

## PTO-drive electrical accessory units

| <b>GENERATORS</b> | <b>12KW</b> | <b>15KW</b> | <b>10KW</b> | <b>20KW</b> | <b>25KW</b> | <b>20KVA</b> | <b>34KVA</b> | <b>41KVA</b> |
|-------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Rated Output      | 12          | 15          | 10          | 20          | 25          | 16           | 27           | 32           |
| Phase             | Single      | Single      | Single      | Single      | Single      | Three        | Three        | Three        |
| Rated Voltage     | 120/240     | 120/240     | 120/240     | 120/240     | 120/240     | 120/208/416  | 120/208/416  | 120/208/416  |
| Rated Frequency   | 60          | 60          | 60          | 60          | 60          | 60           | 60           | 60           |
| Rated Input Speed |             | 887         | 3,600       | 1,800       | 1,800       | 1,800        | 1,800        | 1,800        |
| Input Required    | 20.9        | 25.8        | 16.4        | 31.9        | 39.9        | 25.9         | 42.1         | 49.3         |
| Efficiency Rating | 77%         | 78%         | 82%         | 84%         | 84%         | 83%          | 86%          | 87%          |
| Weight – lb       | 155         | 175         | 123         | 260         | 304         | 190          | 276          | 280          |
| Length – in       | 26.7        | 26.7        | 19.4        | 27.8        | 27.8        | 22.2         | 27.8         | 27.8         |
| Width – in        | 11.5        | 11.5        | 11.5        | 11.8        | 11.8        | 11.8         | 11.8         | 11.8         |
| Height – in       | 16.1        | 16.1        | 12          | 12.2        | 12.2        | 12.2         | 12.2         | 12.2         |
| Shaft Size – mm   | 1-3/8"/6    | 1-3/8"/6    | 28          | 35          | 35          | 35           | 35           | 35           |

| <b>WELDER / GENERATORS</b> | <b>300/10</b> | <b>400/10</b> | <b>400/16</b> |
|----------------------------|---------------|---------------|---------------|
| Rated Power Output – kW    | 10            | 10            | 16            |
| Max Welding Amperage       | 300           | 400           | 400           |
| Weld Voltage – volts DC    | 21–32         | 21–36         | 21–36         |
| Strike Voltage – volts DC  | 70            | 70            | 70            |
| Rated Voltage – volts AC   | 120/240       | 120/240       | 120/240       |
| Rated Frequency – Hz       | 60            | 60            | 60            |
| Rated Input Speed – rpm    | 887           | 887           | 887           |
| Input Required – hp        | 23.3          | 26            | 34.9          |
| Weight – lb                | 238           | 238           | N/A           |
| Length – in                | 19.4          | 26.7          | 26.7          |
| Width – in                 | 11.5          | 11.5          | N/A           |
| Height – in                | 17            | 17            | N/A           |
| Shaft Size – mm            | 1-3/8"/6      | 1-3/8"/6      | 1-3/8"/6      |



### GENERATOR FEATURES

- 120 volt or 120/240 volt AC configurable output
- Maintenance-free, brushless design
- True sine wave AC output signal
- Built-in voltage regulation
- 60 Hz frequency operation
- Single- and three-phase versions available

### WELDER FEATURES

- Welding amperage range selector included
- 120 volt or 120/240 volt AC configurable generator output
- 60 Hz frequency operation
- True sine wave AC output signal
- Locking weld receptacles

## Belt-drive electrical accessory units (coupled with PTO-drive compressor system)\*

| <b>GENERATORS</b>        | <b>5.2 KW</b> | <b>10 KW</b> |
|--------------------------|---------------|--------------|
| Rated Power Output – kW  | 5.2           | 10           |
| Phase                    | Single        | Single       |
| Rated Voltage – volts AC | 120/240       | 120/240      |
| Rated Frequency – Hz     | 60            | 60           |
| Rated Input Speed – rpm  | 3,600         | 3,600        |
| Input Required – hp      | 8.9           | 16.2         |
| Efficiency Rating        | 78%           | 83%          |
| Weight – lb              | 45            | 77           |
| Length – in              | 12.6          | 16.5         |
| Width – in               | 7.9           | 7.9          |
| Height – in              | 8             | 8            |
| Shaft Size – mm          | 24            | 24           |

| <b>WELDER / GENERATORS</b> | <b>200/4</b> | <b>250/5.5</b> |
|----------------------------|--------------|----------------|
| Rated Power Output – kW    | 4            | 5.5            |
| Max Welding Amperage       | 200          | 250            |
| Weld Voltage – volts DC    | 23/30        | 22/28          |
| Strike Voltage – volts DC  | 78/85        | 82             |
| Rated Voltage – volts AC   | 120/240      | 120/240        |
| Rated Frequency – Hz       | 60           | 60             |
| Rated Input Speed – rpm    | 3,600        | 3,600          |
| Input Required – hp        | 10.7         | 14.2           |
| Weight – lb                | 122          | 138            |
| Length – in                | 14.4         | 16.5           |
| Width – in                 | 7.9          | 7.9            |
| Height – in                | 8            | 8              |
| Shaft Size – mm            | 24           | 24             |



\* Belt-drive electrical accessory units are designed to be belt-driven off of a pulley attached to the front of an Ingersoll Rand PTO-drive air compressor system. These units are

## Hydraulic-drive electrical accessory units

| <b>GENERATORS</b>              | <b>3.6 KW</b> | <b>4.8 KW</b> | <b>6.2 KW</b> | <b>7.5 KW</b> | <b>8.5 KW</b> | <b>10 KW</b> | <b>12 KW</b> | <b>15 KW</b> |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Rated Power Output – kW        | 3.6           | 4.8           | 6.2           | 7.5           | 8.5           | 10           | 12           | 15           |
| Phase                          | Single        | Single        | Single        | Single        | Single        | Single       | Single       | Single       |
| Rated Voltage – volts AC       | 120/240       | 120/240       | 120/240       | 120/240       | 120/240       | 120/240      | 120/240      | 120/240      |
| Rated Frequency – Hz           | 60            | 60            | 60            | 60            | 60            | 60           | 60           | 60           |
| Required Hydraulic Flow – gpm  | 7.5           | 9             | 12            | 14.5          | 16            | 19           | 20           | 24           |
| Required Hydraulic Press – psi | 1,800         | 1,850         | 1,800         | 1,800         | 1,800         | 2,000        | 2,000        | 2,000        |
| Weight – lb                    | 68            | 85            | 87            | 105           | 114           | 121          | 129          | 141          |
| Length – in                    | 23            | 25            | 25            | 28            | 28            | 28           | 29           | 29           |
| Width – in                     | 8             | 8             | 8             | 8             | 8             | 8            | 11           | 11           |
| Height – in                    | 10            | 10            | 10            | 10            | 10            | 10           | 11           | 11           |

| <b>WELDER / GENERATORS</b>     | <b>200/4</b> | <b>250/5.5</b> | <b>300/6</b> | <b>300/10</b> | <b>400/16</b> |
|--------------------------------|--------------|----------------|--------------|---------------|---------------|
| Rated Power Output – kW        | 4.5          | 5              | 6            | 10            | 16            |
| Max Welding Amperage           | 200          | 250            | 300          | 300           | 400           |
| Weld Voltage – volts DC        | 23/30        | 22/28          | 22/28        | 22/28         | 22/28         |
| Strike Voltage – volts DC      | 78/85        | 82             | 82           | 82/88         | 82/88         |
| Rated Voltage – volts AC       | 120/240      | 120/240        | 120/240      | 120/240       | 120/240       |
| Rated Frequency – Hz           | 60           | 60             | 60           | 60            | 60            |
| Required Hydraulic Flow – gpm  | 12.5         | 20             | 20           | 24            | 32            |
| Required Hydraulic Press – psi | 2,000        | 2,200          | 2,200        | 2,000         | 2,500         |
| Weight – lb                    | 115          | 138            | 143          | 158           | 330           |
| Length – in                    | 26           | 27             | 27           | 29            | 39            |
| Width – in                     | 8            | 8              | 8            | 11            | 12            |
| Height – in                    | 14           | 14             | 14           | 17            | 22            |

### JUMP STARTERS

|                                | 650/400 | 1000/600 |
|--------------------------------|---------|----------|
| Rated Amperage @ 12 volts DC   | 650     | 1,000    |
| Rated Amperage @ 24 volts DC   | 400     | 600      |
| Rated Frequency – Hz           | 60      | 60       |
| Required Hydraulic Flow – gpm  | 17      | 22       |
| Required Hydraulic Press – psi | 2,000   | 2,300    |
| Weight – lb                    | 138     | 148      |
| Length – in                    | 26      | 28       |
| Width – in                     | 8       | 8        |
| Height – in                    | 14      | 14       |

### HYDRAULIC UNIT FEATURES

Built-in pressure-compensating flow regulator  
Can be mounted in any orientation  
Maintenance-free design  
60 Hz frequency operation  
True sine wave AC output signal  
120 volt or 120/240 volt AC configurable output  
Unit includes gear-type hydraulic motor with case drain



## Electrical accessory



### MIG-GUN WELDING KIT

Compatible with all welders offered  
4-inch spool  
Wire size — 0.23 to 0.1875 inches  
Hard-shell carrying case standard  
Welds up to 1-inch thick material  
Wire speed — 50 to 900 inches per minute  
Built-in shield gas control valve

### THREE-FUNCTION METERS

Measures frequency, current, and voltage  
Bright red LED display  
Powered by generator, welder, or jumpstarter (no external power supply needed)  
Maximum amperage ratings available for up to 20 kW units  
Easy two-wire hook-up

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