

# INSTRUCTIONS



\*99TA516203\* (for RCD use only)

Instruction Sheet Number: 99TA516203

Description: Vertical Oil Separator Kit (Paragon Compressors TS, TT) Rev -

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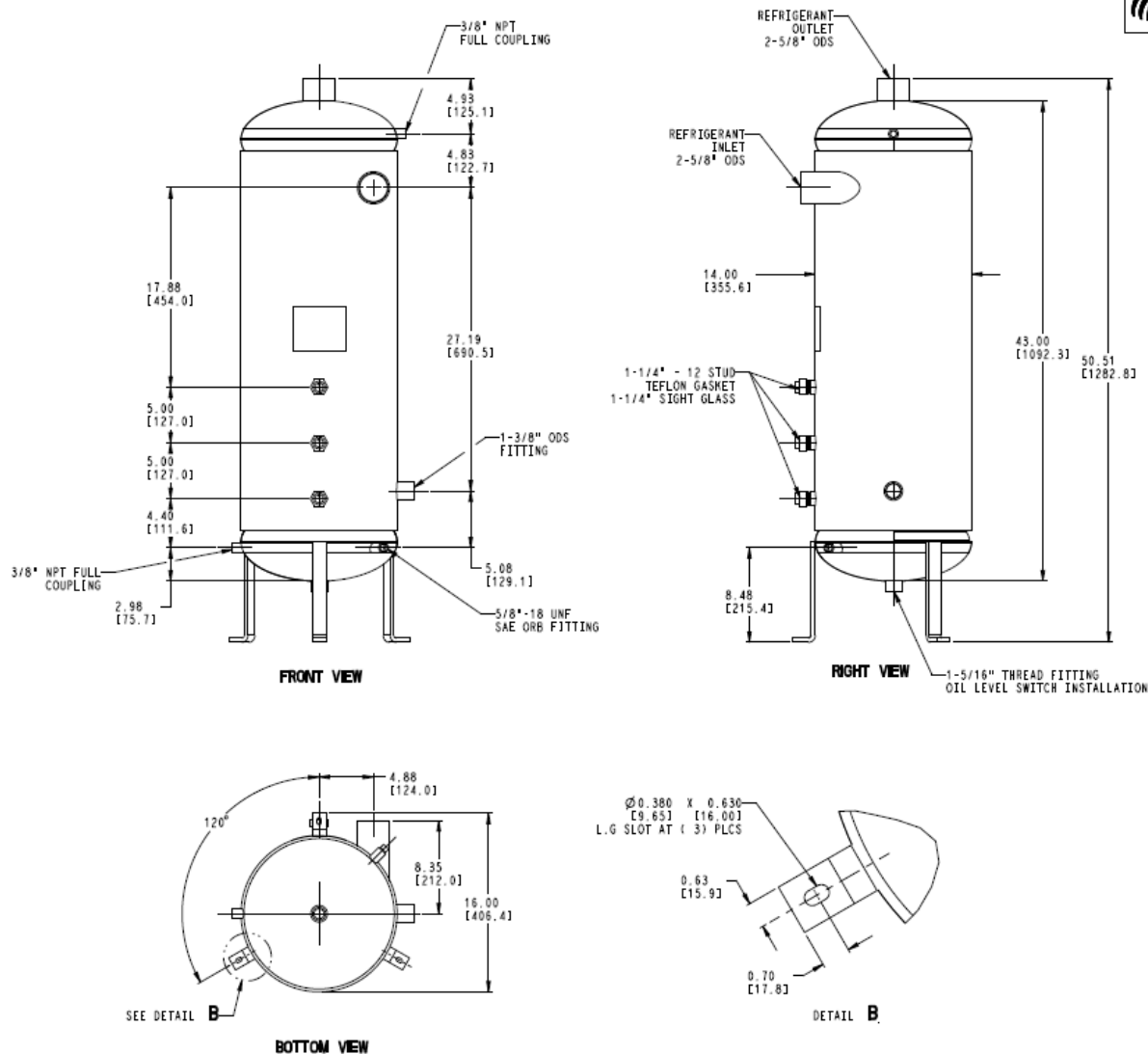
Date: February 20th, 2019

Part Number: 06TT660094

**KIT: 06TT660094 supports 06TSA(R) and 06TTA(R) paragon compressor models applied with a vertical oil separator.**

| QTY | ITEM                   | Carlyle Part Number                  |
|-----|------------------------|--------------------------------------|
| 1   | Vertical Oil Separator | KH31ZZ212                            |
| 1   | Oil Level Float        | HK13LB004                            |
| 1   | 5H40-391               | Oil Separator Heater insert, 230 vac |

## P/N KH31ZZ212, Vertical Oil Separator



The vertical oil separator is designed to work with all paragon low and medium temperature screw compressors. The minimum recommended separator oil charge is 10 gallons of Solest 170, Carlyle P/N SOLEST170-1G or SOLEST170-5G (1 gallon or 5 gallons).

### Compressor Displacement (Low/Medium Temperature Models)

Table 3: Low Temperature (Refrigeration) Models

| MODEL NUMBER | NOMINAL HORSEPOWER | DISPLACEMENT (CFM at 60 Hz) |
|--------------|--------------------|-----------------------------|
| 06TSR137     | 60                 | 137                         |
| 06TSR155     | 75                 | 155                         |
| 06TSR186     | 75                 | 186                         |
| 06TTR266     | 120                | 266                         |
| 06TTR301     | 150                | 301                         |
| 06TTR356     | 150                | 356                         |

Table 4: Medium Temperature Models

| MODEL NUMBER | NOMINAL HORSEPOWER | DISPLACEMENT (CFM at 60 Hz) |
|--------------|--------------------|-----------------------------|
| 06TSM137     | 75                 | 137                         |
| 06TSM155     | 75                 | 155                         |
| 06TTM266     | 150                | 266                         |
| 06TTM301     | 150                | 301                         |

### P/N HK13LB004, Oil Level Switch (115-230 Vac)

An oil level safety switch must be installed in the sump of the vertical oil separator for the purpose to interrupt compressor operation if oil level reduce below adequate to maintain reliable compressor operation. To reduce the possibility of false oil level alarms, the safety switch should be open continuously for 5 seconds prior to initiating a compressor shutdown.



## **ELECTRICAL CHARACTERISTICS**

Usage Category: "High Voltage Circuit" per UL Standard 1995

Switch Type: SPST

Dielectric Voltage: 1500 VAC; 500 VDC

Voltage: 115/230 VAC; 5 VDC

Switch Rating: Carrier minimum requirement - 4 ma @ 5VAC; 167ma @ 120VAC; 87ma @ 230 VAC  
Mfg. rating - 20va pilot duty; .17 amps @ 120VAC; .08amps @ 240VAC

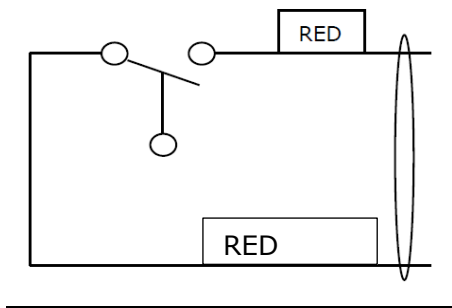
Leads: (2) #22 AWG stranded conductors with insulation conforming to UL Standard 1995.  
Leads to be 12.00-14.00" long and terminated with .25" stripped ends.

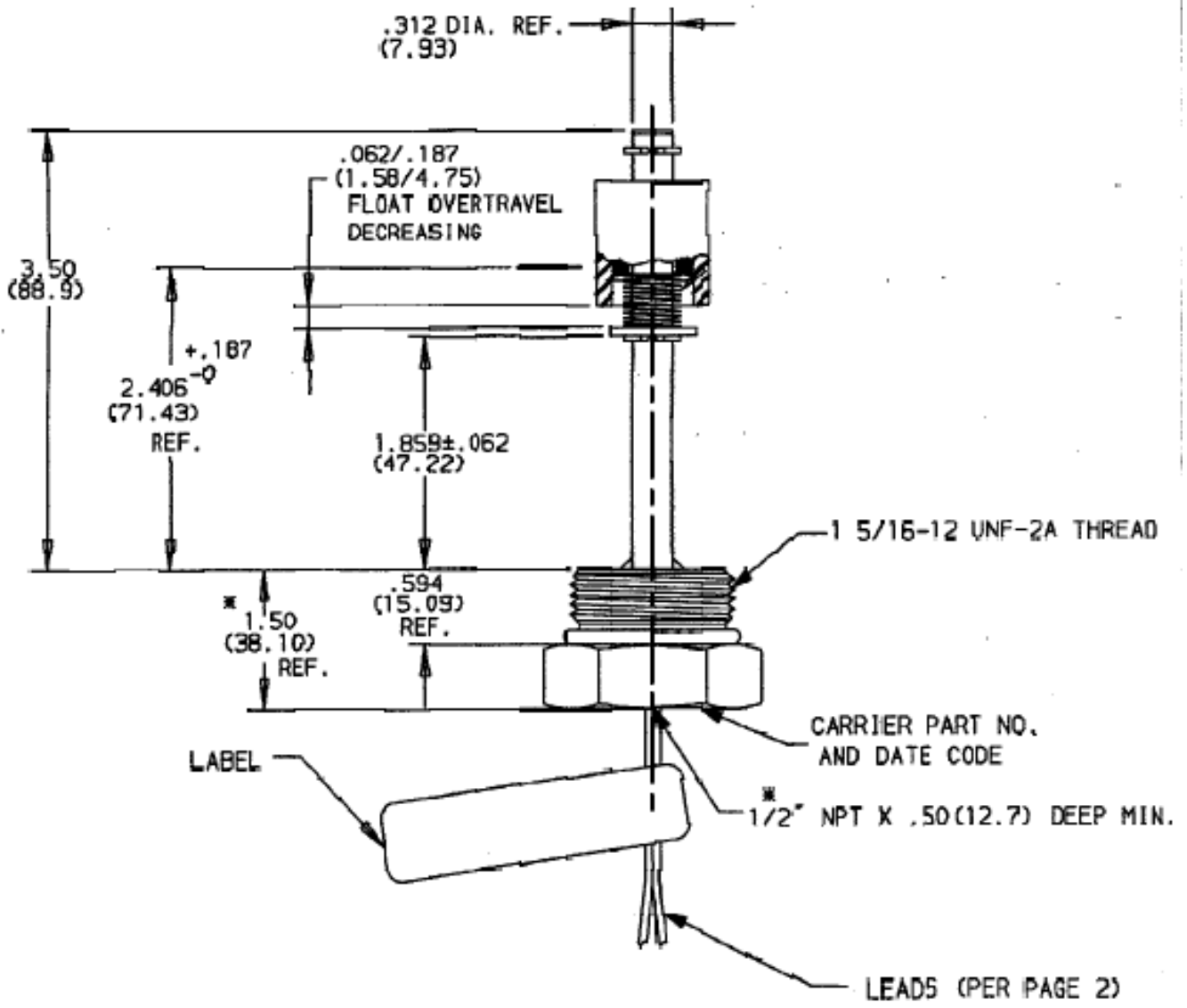
Hi-Pot Test

Requirements: The component must be able to withstand a 1000 VAC high potential dielectric test for a duration of one minute without failure. (Alternate - 1500VAC for one second)

The float oil level switch works with the Carlyle PCM controller kit P/N 6BSB000929 and 6BSB000930. Install the oil level float into the bottom of the vertical oil separator KH31ZZ212. The oil level switch is a dry contact and internal contacts will "open" upon a low oil level.

Wiring Diagram





## **Oil Separator Heater P/N 5H40-391**

The oil separator heater inserts into the oil separator and should be energized, only when the compressor is off, to limit the absorption of refrigerant into the oil. If the oil separator heater remains on during compressor operation, this will lead to potentially excessively high oil temperatures.

The oil separator heater is 230V-1-60Hz and rated for 200 watts. Follow the installation instructions provided with the part.

