



### MODELLI RS - ECO

La funzione dell'applicazione dei separatori d'olio, installati a valle dei compressori a vite, è quella di separare l'olio lubrificante dal fluido frigorifero riducendo il quantitativo d'olio in circolazione nel circuito e migliorando così il rendimento dell'impianto. I refrigeranti sono tutti gli HCFC, HFC, HFO, NH3 ed altri purché compatibili con i materiali di costruzione. I nostri separatori d'olio verticali hanno una capacità di separazione, per compressori a vite, adeguata per portate di refrigerante (di marche primarie) comprese tra 120 e 2250 m3/h.

Il separatore è costituito da due parti: la superiore opportunamente dimensionata per ottenere una elevata separazione dell'olio dal gas refrigerante e quella inferiore dove l'olio separato cola e si accumula per poi essere di nuovo inviato verso il compressore (tranne versione ECO). La nostra gamma si distingue per offrire soluzioni con e senza ricevitore e con separazione mono stadio (ciclonica) oppure bi stadio (ciclonica e filtrante).

Tutti i separatori d'olio sono sottoposti ad una prova pressione per il controllo della tenuta generale e specifica delle saldature.

### MODELS RS - ECO

The purpose of the application of the oil separators, installed after the screw compressors, is the one to separate the lubricant oil from the refrigerant fluid reducing the quantity of oil in circulation in the plant thus improving the overall efficiency. The refrigerants are all the HCFC, HFC, HFO, NH3 and others as long as compatible with the manufacturing materials. Our vertical oil separators have a separation capacity, for screw compressors, suitable for refrigerant flows (of primary brands) included between 120 and 2250 m3/h.

The separator consists of two sections: the higher one which is adequately designed to obtain a high degree of separation of the oil from the refrigerant gas and a lower one where the separated oil drops and accumulates to be later on sent back to the compressor (except ECO version). Our range offers solutions with and without receiver and with single stage (cyclonic) or double stage (cyclonic and filtering).

All the oil separators are submitted to a pressure test to check the general tightness and the quality of the weldings.

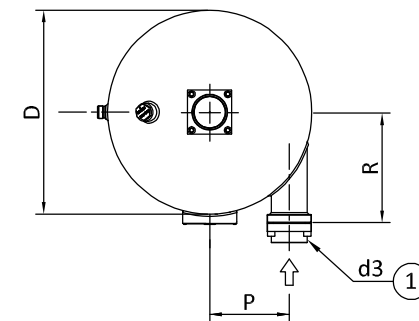
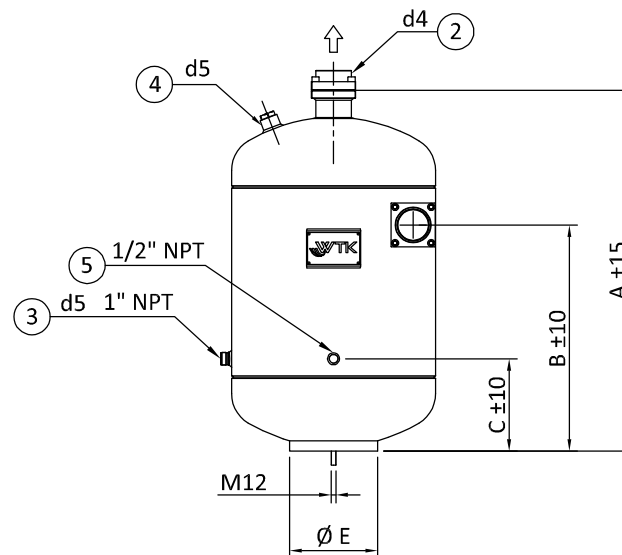
| MODELLO | COMPRESSOR SUCTION VOLUME |                       | OIL VOLUME | TOTAL VOLUME | PS  | TS         | A   | B   | C   | D   | E   | P   | R   | CONNECTIONS    |                |      | Cat. PED | Peso (Vuoto) Weight (Empty) |
|---------|---------------------------|-----------------------|------------|--------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|------|----------|-----------------------------|
| MODEL   | Air Conditioning          | Cooling and Low Temp. |            |              |     |            |     |     |     |     |     |     |     | d1             | d2             | d3   |          |                             |
|         | m3/h                      | m3/h                  | dm3        | dm3          | bar | °C         | mm  | mm  | mm  | mm  | mm  | mm  | mm  | mm             | mm             | Thrd | Gr. 1    | kg                          |
| RS182   | 220                       | 300                   | 3          | 30           | 30  | -10 / +90  | 545 | 385 | 100 | 324 | 114 | 115 | 230 | ODS 54 - OD 60 | ODS 54 - OD 60 | 1/2" | III      | 38                          |
| RS402   | 490                       | 660                   | 7          | 75           | 30  | -10 / +120 | 770 | 560 | 170 | 406 | 168 | 150 | 230 | ODS 64 - OD 76 | ODS 64 - OD 76 | 1"   | IV       | 55                          |
| RS902   | 940                       | 1320                  | 10         | 140          | 30  | -10 / +120 | 900 | 640 | 180 | 508 | 219 | 198 | 277 | ODS 80 - OD 89 | ODS 80 - OD 89 | 1"   | IV       | 66                          |

### CONNESSIONI CONNECTIONS

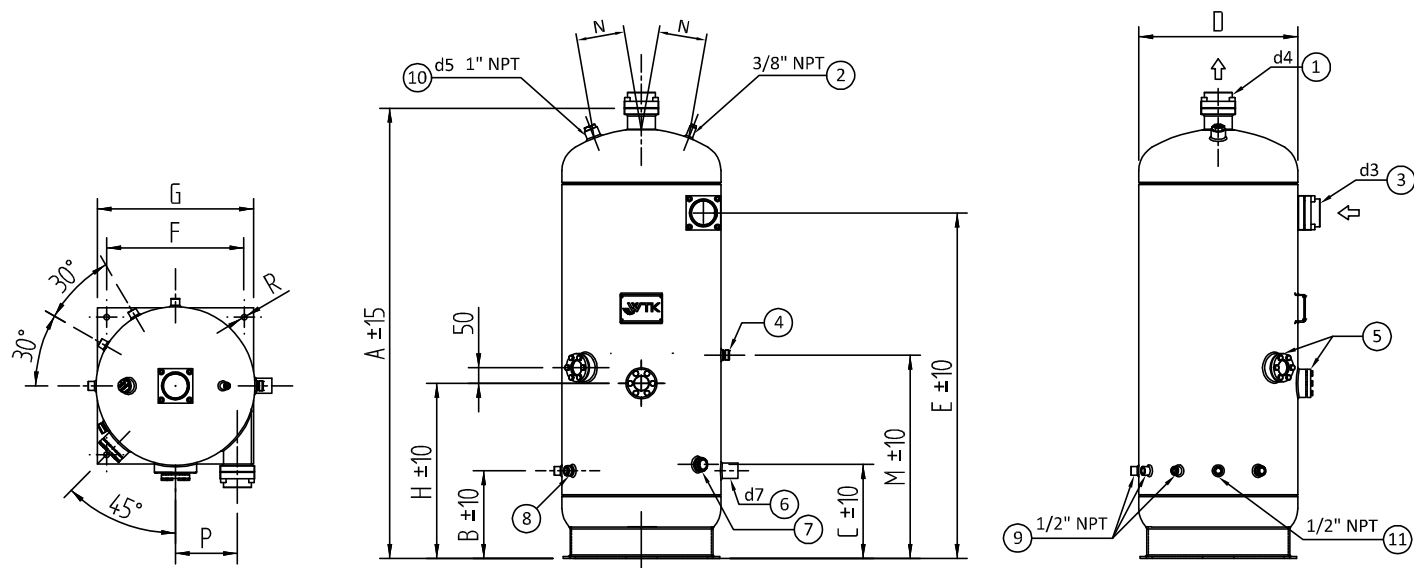
- 1 Refrigerant inlet
- 2 Refrigerant outlet
- 3 Oil outlet
- 4 Safety valve connection
- 5 Secondary oil outlet

### LIMITI DI IMPIEGO - WORKING LIMITS

| RS                 | T - standard<br>[°C] | T - low temp<br>[°C] | Pr<br>[bar] | Prp<br>[bar] |
|--------------------|----------------------|----------------------|-------------|--------------|
| RS 182 / 402 / 902 | -10 / +120           | -45 / +120           | 36          | 51,5         |



| MODELLO<br>MODEL | COMPRESSOR SUCTION<br>VOLUME |                          | No. of<br>HEATERS | OIL<br>VOLUME | OIL<br>VOLUME | TOTAL<br>VOLUME | PS  | TS         | A    | B   | C   | D   | E    | F   | G   | H   | M   | N   | P   | R  | CONNECTIONS |        |           | Cat.<br>PED | Peso<br>(Vuoto)<br>Weight<br>(Empty) |    |
|------------------|------------------------------|--------------------------|-------------------|---------------|---------------|-----------------|-----|------------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|-------------|--------|-----------|-------------|--------------------------------------|----|
|                  | Air<br>Conditioning          | Cooling and<br>Low Temp. |                   |               |               |                 |     |            |      |     |     |     |      |     |     |     |     |     |     |    | d3          | d4     | d7        |             |                                      |    |
|                  |                              |                          |                   |               |               |                 |     |            |      |     |     |     |      |     |     |     |     |     |     |    |             |        |           |             |                                      |    |
|                  | m3/h                         | m3/h                     | No.               | dm3           | dm3           | dm3             | bar | °C         | mm   | mm  | mm  | mm  | mm   | mm  | mm  | mm  | mm  | mm  | mm  | mm | mm          | mm     | mm        | Thrd        | Gr. 1                                | kg |
| RS180            | 220                          | 300                      | 1                 | 19            | 19            | 50              | 36  | -10 / +120 | 830  | 200 | 240 | 324 | 550  | 280 | 330 | 330 | 420 | 100 | 120 | 13 | OD 54       | OD 54  | 1"1/4 Rtk | IV          | 60                                   |    |
| RS400            | 490                          | 660                      | 2                 | 50            | 50            | 120             | 36  | -10 / +120 | 1170 | 220 | 260 | 406 | 865  | 320 | 380 | 460 | 550 | 100 | 145 | 13 | OD 76       | OD 76  | 1"3/4 Rtk | IV          | 130                                  |    |
| RS900            | 940                          | 1320                     | 3                 | 90            | 90            | 220             | 36  | -10 / +120 | 1480 | 280 | 300 | 508 | 1105 | 440 | 500 | 560 | 650 | 150 | 198 | 18 | OD 89       | OD 89  | ODS 42    | IV          | 195                                  |    |
| RS1300           | 1320                         | 1600                     | 4                 | 130           | 130           | 330             | 32  | -45 / +120 | 1485 | 300 | 320 | 610 | 1100 | 530 | 610 | 550 | 650 | 190 | 235 | 18 | OD 114      | OD 114 | ODS 54    | IV          | 230                                  |    |
| RS2300           | 1650                         | 2250                     | 4                 | 230           | 230           | 560             | 32  | -45 / +120 | 1770 | 380 | 360 | 711 | 1320 | 530 | 610 | 710 | 760 | 150 | 265 | 18 | OD 141      | OD 141 | ODS 76    | IV          | 385                                  |    |

CONNESSIONI  
CONNECTIONS

- 1 Refrigerant outlet
- 2 Service valve connection
- 3 Refrigerant Inlet
- 4 Oil charge valve connection
- 5 Oil level sight glass
- 6 Parallel compressors oil outlet
- 7 Oil control level connection
- 8 Oil outlet
- 9 Oil heaters connection
- 10 Safety valve connection
- 11 Thermostat sensor connection

## LIMITI DI IMPIEGO - WORKING LIMITS

| RS                 | T - standard | T - low temp | Pr    | Prp   |
|--------------------|--------------|--------------|-------|-------|
|                    | [°C]         | [°C]         | [bar] | [bar] |
| RS 180 / 400 / 900 | -10 / +120   | -45 / +120   | 36    | 51,5  |
| RS 1300 / 2300     | -10 / +120   | -45 / +120   | 32    | 45,8  |

| MODELLO<br>MODEL | COMPRESSOR SUCTION VOLUME |         |                             | No. of<br>HEATERS | No. Of<br>FILTERS | OIL<br>VOLUME | TOTAL<br>VOLUME | PS  | TS         | A    | B   | C   | D   | E    | F   | G   | H   | M   | N    | P   | R  | S    | CONNECTIONS      |    |                  | Cat.<br>PED | Peso<br>(Vuoto)<br>Weight<br>(Empty) |       |    |
|------------------|---------------------------|---------|-----------------------------|-------------------|-------------------|---------------|-----------------|-----|------------|------|-----|-----|-----|------|-----|-----|-----|-----|------|-----|----|------|------------------|----|------------------|-------------|--------------------------------------|-------|----|
|                  | Air<br>Conditioning       | Cooling | Cooling<br>and Low<br>Temp. |                   |                   |               |                 |     |            |      |     |     |     |      |     |     |     |     |      |     |    |      | d3               | d4 | d7               |             |                                      |       |    |
|                  |                           |         |                             |                   |                   |               |                 |     |            |      |     |     |     |      |     |     |     |     |      |     |    |      |                  |    |                  |             |                                      |       |    |
|                  | m3/h                      | m3/h    | m3/h                        | No.               | No.               | dm3           | dm3             | bar | °C         | mm   | mm  | mm  | mm  | mm   | mm  | mm  | mm  | mm  | mm   | mm  | mm | mm   | mm               | mm | mm               | mm          | Thrd                                 | Gr. 1 | kg |
| RS184            | 120                       | 150     | 250                         | 1                 | 1                 | 21            | 90              | 36  | -10 / +120 | 1336 | 200 | 240 | 324 | 680  | 280 | 330 | 350 | 440 | 725  | 120 | 13 | 1050 | ODS 54 / OD 60   |    | ODS 54 / OD 60   | 1"1/4 Rtk   | IV                                   | 145   |    |
| RS404            | 220                       | 300     | 500                         | 2                 | 2                 | 50            | 170             | 36  | -10 / +120 | 1620 | 220 | 260 | 406 | 820  | 320 | 380 | 460 | 550 | 895  | 145 | 13 | 1310 | ODS 64 / OD 76   |    | ODS 64 / OD 76   | 1"3/4 Rtk   | IV                                   | 185   |    |
| RS904            | 400                       | 550     | 950                         | 3                 | 3                 | 90            | 310             | 36  | -10 / +120 | 1950 | 260 | 300 | 508 | 1060 | 440 | 500 | 520 | 610 | 1135 | 198 | 18 | 1550 | ODS 80 / OD 89   |    | ODS 80 / OD 89   | ODS 42      | IV                                   | 345   |    |
| RS1304           | 960                       | 1200    | 1350                        | 4                 | 4                 | 130           | 470             | 32  | -45 / +120 | 2005 | 300 | 320 | 610 | 1220 | 530 | 610 | 550 | 650 | 1320 | 235 | 18 | 1610 | ODS 108 / OD 114 |    | ODS 108 / OD 114 | ODS 54      | IV                                   | 465   |    |
| RS2304           | 1300                      | 1650    | 2250                        | 4                 | 6                 | 220           | 620             | 32  | -45 / +120 | 2250 | 385 | 385 | 711 | 1365 | 530 | 610 | 695 | 715 | 1465 | 265 | 18 | 1805 | OD 141           |    | OD 141           | ODS 76      | IV                                   | 600   |    |

CONNESSIONI  
CONNECTIONS

- 1 Refrigerant outlet
- 2 Service valve connection
- 3 Refrigerant Inlet
- 4 Oil charge valve connection
- 5 Oil level sight glass
- 6 Parallel compressors oil outlet
- 7 Oil control level connection
- 8 Oil outlet
- 9 Oil heaters connection
- 10 Safety valve connection
- 11 Thermostat sensor connection

LIMITI DI IMPIEGO - WORKING LIMITS

| RS                 | T - standard | T - low temp | Pr | Prp  |
|--------------------|--------------|--------------|----|------|
|                    | [°C]         | [°C]         |    |      |
| RS 180 / 404 / 904 | -10 / +120   | -45 / +120   | 36 | 51,5 |
| RS 1304 / 2304     | -10 / +120   | -45 / +120   | 32 | 45,8 |

