



OIL CHARGE U.S. GALS (LBS)	
SINGLE FILTER	158(1185)
DOUBLE FILTER	166(1245)

- NOTES)
1. ALL DIMENSIONS ARE IN INCHES.
 2. A DISCHARGE STOP/CHECK VALVE TO BE SHIPPED LOOSE. MOUNT AS CLOSE TO CONDENSER AS POSSIBLE. IN A HORIZONTAL LINE. VALVE STEM MUST BE IN THE VERTICAL POSITION AS SHOWN. VALVES SIZED PER CONDITIONS.
 3. SEPARATE DISCHARGE STOP & CHECK VALVES ARE OPTIONAL AND SHIPPED LOOSE.
 4. DUAL RELIEF VALVE TO BE SHIPPED LOOSE. FOR AMMONIA: VALVE IS SET AT 250 PSIG. IT HAS 1 1/4" INLET X 1 1/4" OUTLET CONNECTIONS RATED FOR 85.4 LBS AIR/MIN. FOR R-22: VALVE IS SET AT 300 PSIG. IT HAS 1 1/4" INLET X 1 1/2" OUTLET CONNECTIONS RATED FOR 160.2 LBS AIR/MIN. FOR R-502: VALVE IS SET AT 300 PSIG. IT HAS 1 1/4" INLET X 1 1/2" OUTLET CONNECTIONS RATED FOR 138.1 LBS AIR/MIN. FOR R-134a: VALVE IS SET AT 300 PSIG. IT HAS 1 1/4" INLET X 1 1/2" OUTLET CONNECTIONS RATED FOR 138.1 LBS AIR/MIN.
- FOR ALL OTHER REFRIGERANTS CONTACT THE FACTORY
5. DASHED MOTOR (FRAME 449 TS) IS SHOWN FOR REFERENCE ONLY. SEE TABLE 2 AND MOTOR DATA SHEET FOR DETAILS.
 6. FLANGE BOLT HOLES STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
 7. ALL PRESSURE GAUGES WILL SHIP LOOSE.
 8. SOME DETAILS HAVE BEEN REMOVED FOR CLARITY.
 9. REMOVAL OF ACTUATOR MOTOR WILL RESULT IN A 6-1/2 INCH HEIGHT REDUCTION. REMOVAL OF THE COMMAND SHAFT WILL RESULT IN AN ADDITIONAL 2.5 INCHES OF HEIGHT REDUCTION.

THIS DRAWING IS SUITABLE FOR COUNTER-CLOCKWISE 350mm VSS COMPRESSOR VSS 1501 AND 1801 Ø 42.00 OIL SEPARATOR HIGH STAGE, BOOSTER OR SWING OIL HEAT EXCH - FLATPLATE THERMOSYPHON ECN-D-MIZER (STD OR OVERSIZE CONNECTIONS) SINGLE OR DUAL FILTERS

CONNECTION SCHEDULE			
I.D.	SIZE	CONNECTION	FUNCTION
A	SEE CHART A	BUTT WELD (SCH. 40)	SUCTION INLET
B	5.00	BUTT WELD (SCH. 40)	DISCHARGE OUTLET
D	.500-14	IPT	PRESSURE RELIEF SEE NOTE 4
E	.500-14	IPT	OIL DRAIN & CHARGER WHEN UNIT NOT RUNNING
F	.250-18	IPT	OIL CHARGER WHEN UNIT IS RUNNING
G	2.00-300#	ANSI FLANGE	STANDARD ECN-D-MIZER INLET
	4.00-300#	ANSI FLANGE	DIVERSIZE ECN-D-MIZER INLET
H	.250-18	IPT	TRANSDUCER BLOCK/BLEED
J	1.500	SOC WELD	REFRIG INLET 5X12 AND 5X20 HEAT EXCH
	2.500	SOC WELD	REFRIG INLET 10X20 HEAT EXCH
K	1.500	SOC WELD	REFRIG OUTLET 5X12 AND 5X20 HEAT EXCH
	2.500	SOC WELD	REFRIG OUTLET 10X20 HEAT EXCH

SHIPPING WEIGHT		(ADD EACH TABLE FOR ESTIMATED SHIPPING WEIGHT)			
TABLE 1 SEPARATOR, SUCTION, PIPING & LI (LBS)		TABLE 2 NEMA FRAMES TYPICAL MOTORS			
6"	7180	FRAME (DDP)	WEIGHT (LBS)	FRAME (DDP)	WEIGHT (LBS)
8"	7380	254T	260	365TS	780
TABLE 3 OPTIONAL DUAL FILTERS +274 LBS		256T	270	404TS	900
TABLE 4 COMPRESSOR WEIGHT (LBS)		284T	360	405TS	975
VSS-1501	3180	286T	400	444TS	1300
VSS-1801	3220	324TS	480	445TS	1475
		326TS	540	447TS	1770
		364TS	725	449TS	2135

CHART A (REFER TO ORDER COPY FOR LINE SIZES)		STD ARRANGEMENT COMBINED STOP/CHK VALVE	
SUCTION LINE SIZE		AA	
6"	AMM.	HALD	7.5
8"	13.2	14.2	
OPTL ARRANGEMENT SEPARATE STOP & CHK VALVES		AA	
6"	AMM.	HALD	19.5
8"	18.3	28.3	
FOR BOTH STD & OPT ARRANGEMENT			
SUCTION LINE SIZE		BB	CC DD
6"	10.1	121.8	109.9
8"	106.8	126.2	113.7

R1	OIL FILTER CHARGE WAS 99K743) AND 110K825). ADDED SHIPPING HEIGHTS. ECN: S060019	JDS	RPK	2/14/06
R0	ECN: S040286	RPT	RPK	1/3/05
SYM	REVISION	BY DRAWN	BY APPR.	DATE

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DRAWN BY: RPT CHECKED BY: DWP SCALED: NTS
REDRAWN BY: APPROVED BY: RPK DATE: 1/3/05

TITLE: GEN DIMENSIONS 350mm VSS-1501 AND 1801 W/Ø 42.0 SEPARATOR
FOR: THERMOSYPHON - FLATPLATE
DRAWING NO. 27763-4 R1