



- 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" 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-507: 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 444 TS) IS SHOWN FOR REFERENCE ONLY. SEE TABLE 5 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 280mm VSS COMPRESSOR VSS 751 AND 901 Ø 36.00 OIL SEPARATOR HIGH STAG, BOOSTER, OR SWING OIL HEAT EXCH - FLATPLATE THERMOSYPHON ECON-D-MIZER (STD OR OVERSIZE CONNECTIONS) SINGLE OR DUAL FILTERS

SHIPPING WEIGHT (ADD EACH TABLE FOR ESTIMATED SHIPPING WEIGHT)

TABLE 1		TABLE 2	
SUCTION SIZE	SEPARATOR, SUCTION & PIPING (LBS)	COMPRESSOR SIZE	WEIGHT (LBS)
5"	5750	VSS-751	1600
6"	5840	VSS-901	1650

TABLE 5			
NEMA FRAME'S TYPICAL MOTORS			
FRAME (DIP)	WEIGHT (LBS)	FRAME (DIP)	WEIGHT (LBS)
254T	260	365TS	780
256T	270	404TS	900
284T	360	405TS	975
286T	400	444TS	1300
324TS	480	445TS	1475
326TS	540	447TS	1770
3641TS	725	449TS	2135

TABLE 3	
OPTIONAL DUAL FILTERS +75 LBS	
MODEL APPROX. WT. (LBS)	
FP10X20	185 MAX
FPSX20	70 MAX

CHART A (REFER TO ORDER COPY FOR LINE SIZE)

SUCTION	STD ARRANGEMENT COMBINED STOP/CHK VALVE	
	AMM.	HALD
5.00	8.4	8.4
6.00	11.75	13.25

SUCTION	DPTL ARRANGEMENT SEPARATE STOP & CHK VALVES	
	AMM.	HALD
5.00	9.7	16.9
6.00	17.2	21.1

FOR BOTH STD DPTL ARRANGEMENT

SUCTION	BB	
	AMM.	HALD
5.00	106.63	
6.00	108.75	

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	1.50-300#	ANSI FLANGE	STANDARD ECON-D-MIZER INLET
H	2.50-300#	ANSI FLANGE	OVERSIZE ECON-D-MIZER INLET
H	.250-18	IPT	TRANSDUCER BLOCK/BLEED
J	1.500	SDC WELD	REFRIG INLET 5X12 AND 5X20 HEAT EXCH
J	2.500	SDC WELD	REFRIG INLET 10X20 HEAT EXCH
J	1.500	SDC WELD	REFRIG OUTLET 5X12 AND 5X20 HEAT EXCH
J	2.500	SDC WELD	REFRIG OUTLET 10X20 HEAT EXCH
L			
M			

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

TITLE: GEN DIMENSIONS 280mm VSS-751 AND 901 W/Ø 36.0 SEPARATOR
 FOR: THERMOSYPHON - FLATPLATE

DRAWING NO. **27757-4** R1

ADDED SEVERAL SHIPPING HEIGHTS & NOTE 9. ECN: S050347 JDS RPK 2/11/06
 ECN: S040286 RPT RPK 1/3/05
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