

TYPE

CONDENSATION RETURN UNITS






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HTCR

**photo
coming
soon**

Return units rated to 250F. 2' npsh pumps,
1/2 to 15 hp, 33 to 150 gallon receivers.

HIGHLIGHTS

-  Handles Condensate up to 250°F
-  Non-Vented Receiver
-  Operates with only 2 foot npsh Available
-  Factory Assembled
-  Controls Mounted and Wired

FEATURES

APPLICATION: Federal Type HTCR Condensation Return Units are designed to handle condensate at temperatures up to 250 degrees F, returning from air conditioning absorption coolers, process equipment and some space heaters. Since the receivers are non-vented, they permit pumping the condensate with a minimum temperature drop and flash loss.

A single unit has one pump and motor, one float switch and one receiver, mounted on a steel base, with the pump suction pre-piped and the controls pre-wired. A duplex unit has two pumps and motors, two float switches and one receiver, mounted on a steel base, with the pump suction pre-piped and the controls pre-wired.

RECEIVER: The receiver is designed for non-vented use, with a heavy steel shell and dished steel heads, rated for 30 psi maximum working pressure. ASME labels are available as an option. Each receiver is fitted with a gauge glass, a column thermometer, a compound pressure gauge, a drain connection and a thermostatic vent for automatically eliminating non-condensable gases.

PUMPS: Pumps are close-coupled, bronze-fitted with mechanical shaft seal. Each pump has a standard centrifugal main impeller plus a suction inducer impeller, allowing it to operate with only 2-ft. NPSH available. Each pump has a discharge pressure gauge and a suction line gate valve.

MOTORS: Motors are open drip-proof, ball-bearing type, operating at 1750 rpm or 3450 rpm, and are rated 1/60/115/230v. or 3/60/208-230/460v. Totally enclosed and explosion-proof motors are available as an option.

FLOAT SWITCHES: A float switch is mounted on the receiver for each pump, to provide automatic on-off control, and factory wired to the applicable motor or motor starter. An alternating float switch can be substituted for the two standard float switches on a duplex unit, to provide alternation and 2-pump simultaneous operation if required.

MOTOR STARTERS: An across-the-line magnetic starter is furnished for each motor (except small single phase motors), and is factory wired to the float switch and the motor. Combination starters or a duplex control panel can also be furnished (as an option), mounted and wired on the unit. Starter enclosures other than standard general purpose enclosures can also be furnished as an option.

OTHER MODIFICATIONS: Non-standard receiver sizes; galvanized receivers; special receiver tappings; manhole; drain valve; suction line strainers; magnesium anode; high and/or low water alarms; inlet strainer; inlet baffle; non-standard motor and control enclosures; control modifications.

Selection Table																			
Unit No.	Absorber Capacity (tons)			Pump Differential Press. (PSIG)	Motor HP 1750 RPM	Motor HP 3450 RPM	Receiver Capacity (Gal.)	Receiver Size	Unit No.	Absorber Capacity (tons)			Receiver Capacity (Gal.)	Receiver Size					
	Absorber will condense Lbs./Hr.	Absorber will condense GPM	Pump Cap. GPM							Absorber will condense Lbs./Hr.	Absorber will condense GPM	Pump Cap. GPM							
HTCR-210	200	4,000	8	16	10	0.5	0.5	33	18 X 28	HTCR-810	800	16,000	32	64	10	0.5	0.75	63	22 X 36
HTCR-215					15	0.5	0.5			HTCR-815					15	0.75	1		
HTCR-220					20	0.5	0.5			HTCR-820					20	1	1.5		
HTCR-230					30	1	0.75			HTCR-830					30	2	2		
HTCR-240					40	2	1			HTCR-840					40	3	2		
HTCR-250					50	-	1.5			HTCR-850					50	-	3		
HTCR-260					60	-	2			HTCR-860					60	-	5		
HTCR-270					70	-	2			HTCR-870					70	-	5		
HTCR-280	80	-	3	HTCR-880	80	-	5												
HTCR-310	300	6,000	12	24	10	0.5	0.5	33	18 X 28	HTCR-1010	1,000	20,000	40	80	10	0.75	1	100	24 X 48
HTCR-315					15	0.5	0.5			HTCR-1015					15	1	1		
HTCR-320					20	0.5	0.75			HTCR-1020					20	1.5	1.5		
HTCR-330					30	1.5	1			HTCR-1030					30	2	2		
HTCR-340					40	2	1			HTCR-1040					40	3	3		
HTCR-350					50	-	1.5			HTCR-1050					50	-	3		
HTCR-360					60	-	2			HTCR-1060					60	-	5		
HTCR-370					70	-	3			HTCR-1070					70	-	5		
HTCR-380	80	-	3	HTCR-1080	80	-	7.5												
HTCR-410	400	8,000	16	32	10	0.5	0.75	33	18 X 28	HTCR-1510	1,500	30,000	60	120	10	1	2	150	30 X 48
HTCR-415					15	0.5	0.75			HTCR-1515					15	1.5	2		
HTCR-420					20	0.75	0.75			HTCR-1520					20	2	2		
HTCR-430					30	1.5	1			HTCR-1530					30	3	3		
HTCR-440					40	2	1.5			HTCR-1540					40	5	5		
HTCR-450					50	-	2			HTCR-1550					50	-	5		
HTCR-460					60	-	2			HTCR-1560					60	-	7.5		
HTCR-470					70	-	3			HTCR-1570					70	-	7.5		
HTCR-480	80	-	5	HTCR-1580	80	-	10												
HTCR-510	500	10,000	20	40	10	0.5	0.75	63	22 X 36	HTCR-2010	2,000	40,000	80	160	10	1.5	3	150	30 X 48
HTCR-515					15	0.75	0.75			HTCR-2015					15	2	3		
HTCR-520					20	1	1			HTCR-2020					20	3	3		
HTCR-530					30	1.5	1.5			HTCR-2030					30	5	5		
HTCR-540					40	2	2			HTCR-2040					40	5	7.5		
HTCR-550					50	-	2			HTCR-2050					50	-	7.5		
HTCR-560					60	-	3			HTCR-2060					60	-	10		
HTCR-570					70	-	5			HTCR-2070					70	-	10		
HTCR-580	80	-	5	HTCR-2080	80	-	15												



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