

SHARC™ series

Patented Filtration for Industrial-Sized Wastewater Heat Recovery



SHARC's patented filtration allows it to easily meet the large capacity requirements of energy districts, large multifamily residential, and industrial applications. It can seamlessly fit into just about any condenser water system and provides a more optimal temperature range for increased system efficiency.

INTERESTED
IN REBATES?
CONTACT US!

★ KEY FEATURES

- Expected lifespan of 25 years
- Pressure sensors and flow meters included
- Sizes range from 6 to 12 inch piping (100 to 4500 GPM)
- Automated reversing valves control back flush, keeping the heat exchanger operating at design parameters
- DDC control system with touch screen control, remote monitoring, data trending, and email alerts (Modbus standard and BACnet integration available)

BEST SUITED FOR

LARGE FILTRATION & HEAT TRANSFER APPLICATIONS:



INDUSTRIAL

DISTRICT & CAMPUS ENERGY, COMMERCIAL FOOD PRODUCTION, MANUFACTURING, LARGE BREWERIES, DAIRIES/ CHEESE, AGRICULTURAL



COMMERCIAL

HOSPITALS, BREWERIES & DISTILLERIES, COMMERCIAL LAUNDRY, COMMUNITY ACTIVITY CENTERS



MULTI-FAMILY

350+ UNIT APARTMENTS/ CONDOS, STUDENT HOUSING, SENIOR/ ASSISTED LIVING, COMMUNITY HOUSING



WHY SHARC?

Patented, high efficiency filtration system – pre-screening NOT required

Scalable to accommodate larger flow rates

Can be paired with all types of water-source condensers and heat pumps

Designed inside foundation, leaving rooftops available for greenspace and PV, extending lifespan & ease of service

Replaces/ reduces cooling tower use, saving potable water

Quiet operation – no need for sound proofing or vibration mitigation

SHARC MODEL	SHARC 660	SHARC 880 LF	SHARC 880	SHARC 1212
TYPE OF PROCESS	CONTINUOUS FLOW			
WATER HEATING	YES			
WATER COOLING	YES			
SPACE HEATING/COOLING	YES			
DESIGN WASTEWATER FLOWRATE	100–550 GPM	500–850 GPM	750–1600 GPM	1500–4500 GPM
	6–35 L/S	31–54 L/S	47–100 L/S	95–280 L/S
DESIGN CONDENSER WATER FLOW RATE	VARIES			
	VARIES			
STANDARD DESIGN HEAT OUTPUT, AT MAX FLOW	2474 MBH	3824 MBH	7197 MBH	20242 MBH
	0.725 MW	1.12 MW	2.11 MW	5.93 MW
FILTER SIZE	1/8"			
	3 MM			
SHARC MODULE INLET/ OUTLET CONNECTION DIAMETER	6"	8"	8"	12"
	152 MM	203 MM	203 MM	305 MM
MAX. OPERATING PRESSURE	45 PSI			
COMPONENTS INCLUDED ON SKID	MACERATOR UNIT • SHARC UNIT • AUTOMATED VALVE ASSEMBLY • HEAT EXCHANGER • CONTROL PANEL			
AUXILIARY COMPONENTS (SUPPLIED BY OTHERS)	WASTEWATER HOLDING TANK • SOLIDS-HANDLING WASTEWATER SUPPLY PUMP(S) • CIRCULATION PUMP(S) • HEAT PUMP (OPTIONAL) • DHW PRE-HEAT TANK • CONDENSER WATER LOOP MECHANICAL EQUIPMENT • CONDENSER WATER PUMP VFDS • STORAGE/ BUFFER TANKS • AUXILIARY HEAT INJECTION/ REJECTION EQUIPMENT			

SHARC MODEL	660					880 / 880LF					1212				
POWER			208/230 V, 60 Hz, 3 Phase	460 V, 60 Hz, 3 Phase	575 V, 60 Hz, 3 Phase			208/230 V, 60 Hz, 3 Phase	460 V, 60 Hz, 3 Phase	575 V, 60 Hz, 3 Phase			208/230 V, 60 Hz, 3 Phase	460 V, 60 Hz, 3 Phase	575 V, 60 Hz, 3 Phase
	HP	KW	FLA (A)	FLA (A)	FLA (A)	HP	KW	FLA (A)	FLA (A)	FLA (A)	HP	KW	FLA (A)	FLA (A)	FLA (A)
MACERATOR	5	3.7	13.9	6.7	5.3	5	3.7	13.9	6.7	5.3	10	7.5	25.4	12.0	9.6
AUGER MOTOR	0.75	0.6	3.3	1.7	1.3	1.5	1.1	4.6	2.1	1.7	1.5	1.1	4.6	2.1	1.7
SOLIDS PUMP MOTOR	1	0.75	3.3	1.5	1.4	3	2.2	8.5	3.8	3.0	5	3.7	13.6	6.2	4.9
CONTROLS	-	-	5.0	2.0	2.0	-	-	5.0	2.0	2.0	-	-	5.0	2.0	2.0
NOMINAL LOAD			25.5	11.9	10.0			32	14.6	12.0			48.6	22.3	18.2
MCA (A)			29.0	13.6	11.3			35.5	16.3	13.3			55.0	25.3	20.6
MOCP (A)			40.0	20.0	20.0			50.0	25.0	20.0			80.0	35.0	30.0
S.C.R (kA)			5.0	5.0	5.0			5.0	5.0	5.0			5.0	5.0	5.0

BASE MODULE VALUES ONLY – DOES NOT INCLUDE AUXILIARY EQUIPMENT SUCH AS WASTEWATER SUPPLY PUMP(S), SLUDGE PUMP(S), LOAD SIDE CIRCULATION PUMP(S), ETC. THAT MAY OPTIONALLY BE INCLUDED IN THE SHARC MODULE CONTROL PACKAGE.

Contact SHARC to find out more!

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