GENERAL INFORMATION MODEL NOMENCLATURE SELECTION CURVES
SPECIFICATIONS PACKAGE SYSTEMS

0.2H 8XSC Explosion Proof

PUMP SERIES:

8XSCD (7.5 - 75HP, 1750RPM, 1150RPM, 870RPM)

8XSCT (7.5 - 150HP, 1750RPM, 1150RPM, 870RPM)

WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

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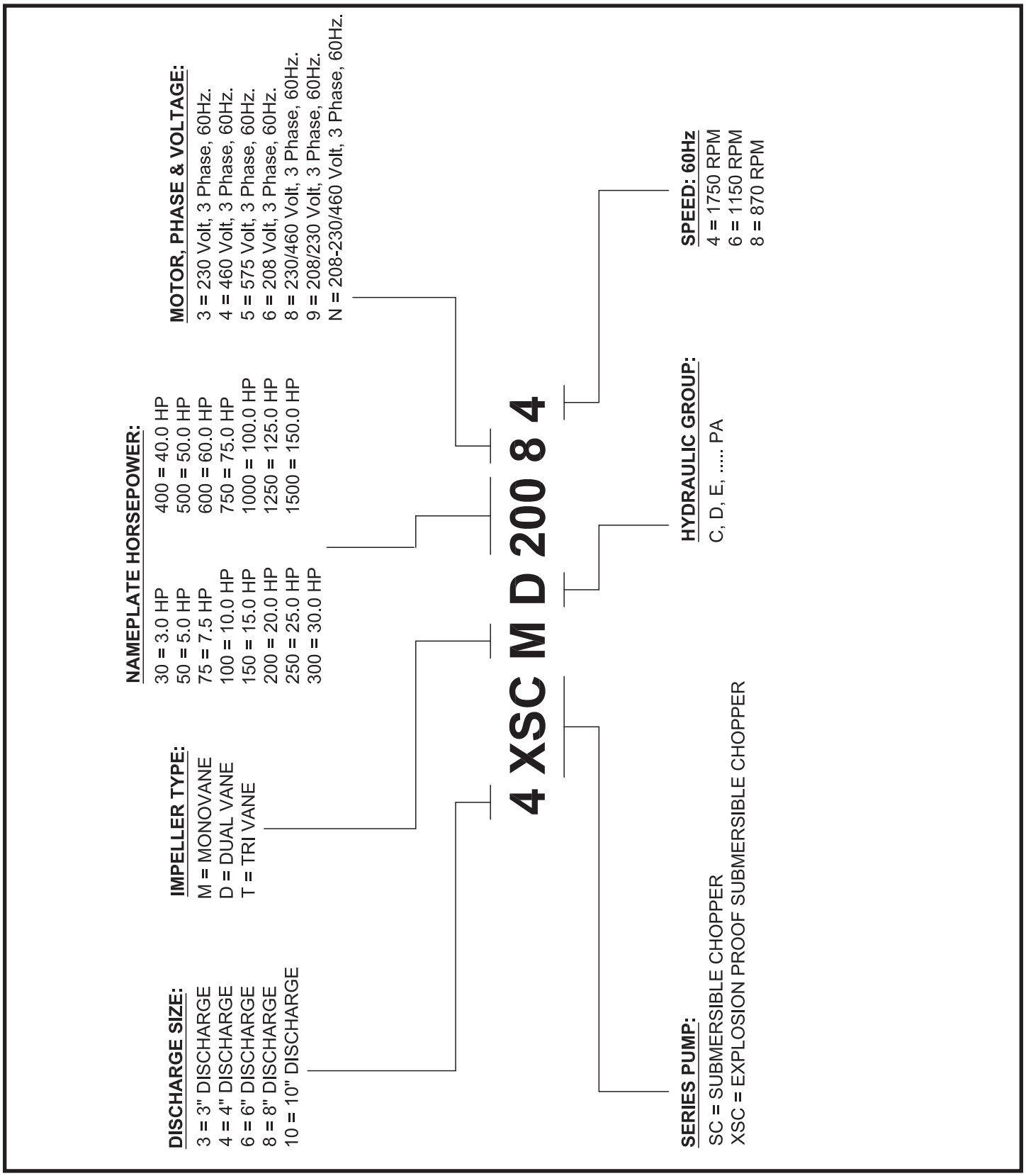
4 XSC M D 200 8 4
DISCHARGE SIZE:
3 = 3" DISCHARGE
4 = 4" DISCHARGE
6 = 6" DISCHARGE
8 = 8" DISCHARGE
10 = 10" DISCHARGE
IMPELLER TYPE:
M = MONOVANE
D = DUAL VANE
T = TRI VANE
NAMEPLATE HORSEPOWER:
30 = 3.0 HP
50 = 5.0 HP
75 = 7.5 HP
100 = 10.0 HP
150 = 15.0 HP
200 = 20.0 HP
250 = 25.0 HP
300 = 30.0 HP
400 = 40.0 HP
500 = 50.0 HP
600 = 60.0 HP
750 = 75.0 HP
1000 = 100.0 HP
1250 = 125.0 HP
1500 = 150.0 HP
MOTOR, PHASE & VOLTAGE:
3 = 230 Volt, 3 Phase, 60Hz.
4 = 460 Volt, 3 Phase, 60Hz.
5 = 575 Volt, 3 Phase, 60Hz.
6 = 208 Volt, 3 Phase, 60Hz.
8 = 230/460 Volt, 3 Phase, 60Hz.
9 = 208/230 Volt, 3 Phase, 60Hz.
N = 208-230/460 Volt, 3 Phase, 60Hz.
SPEED: 60Hz
4 = 1750 RPM
6 = 1150 RPM
8 = 870 RPM
HYDRAULIC GROUP:
C, D, E, ... PA
SERIES PUMP:
SC = SUBMERSIBLE CHOPPER
XSC = EXPLOSION PROOF SUBMERSIBLE CHOPPER

Selection Curves

RPM 1750 & 1150

BARNES®

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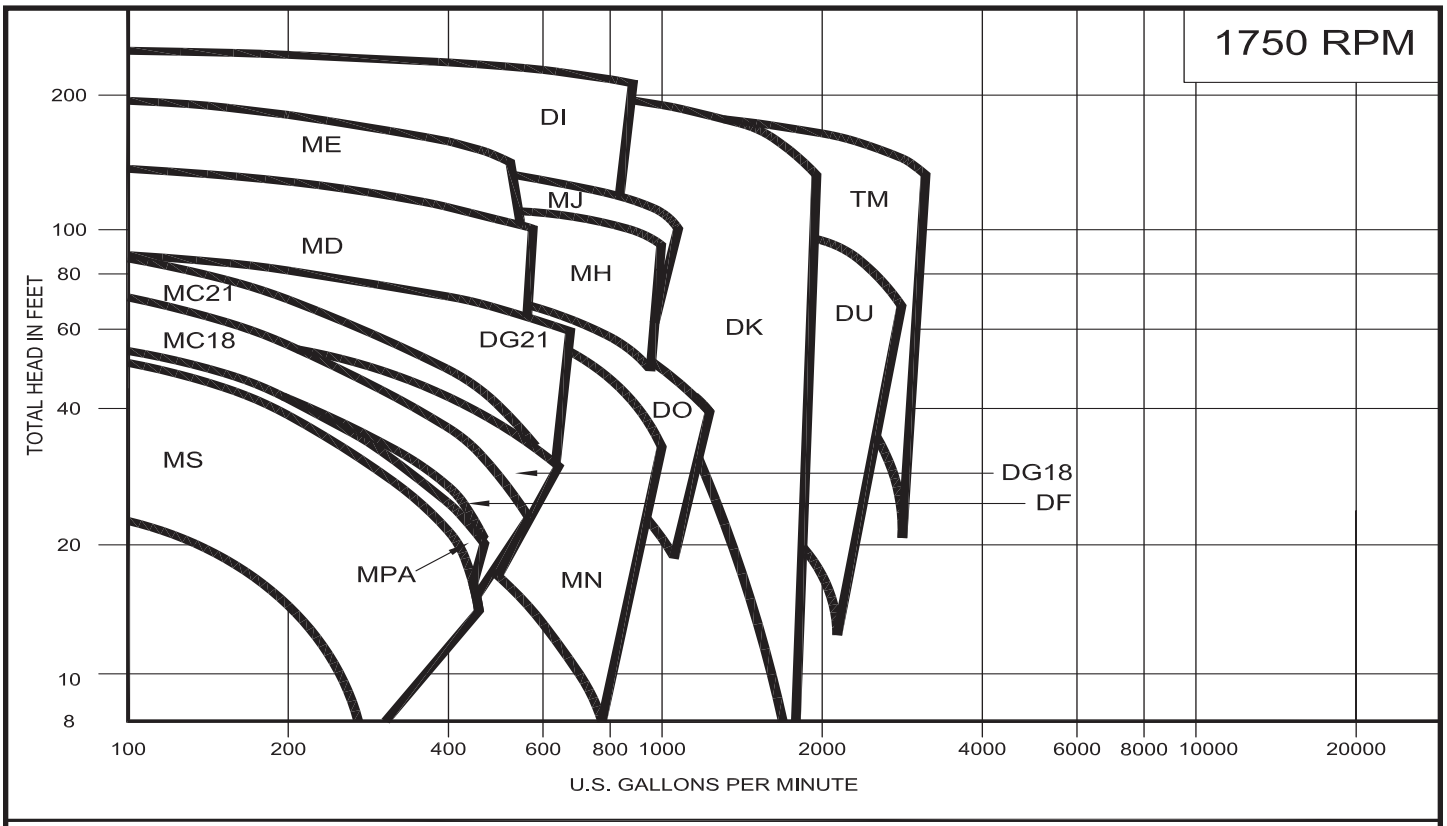
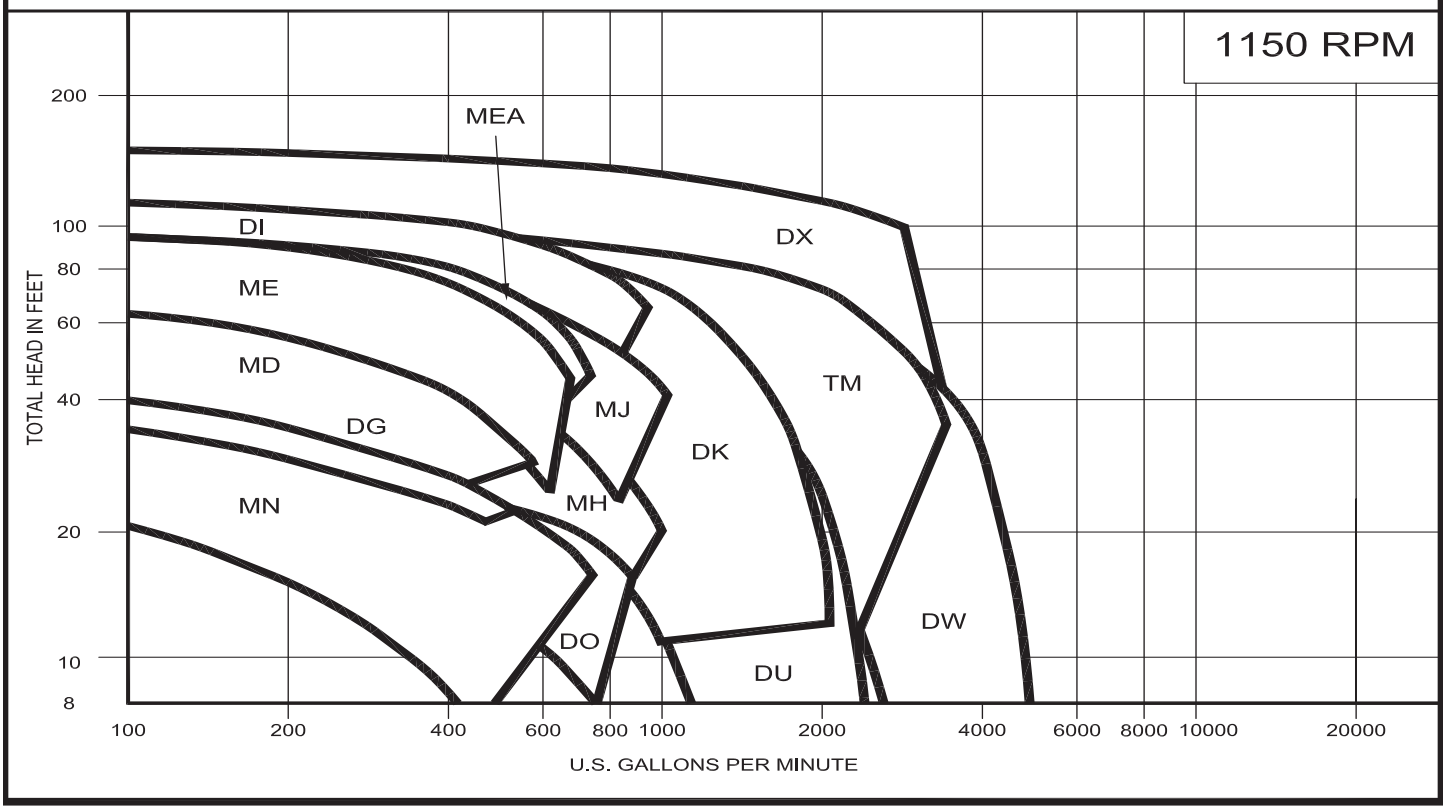
SITHE X-Pruf® Submersible Chopper Pumps





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PUMPS & SYSTEMS

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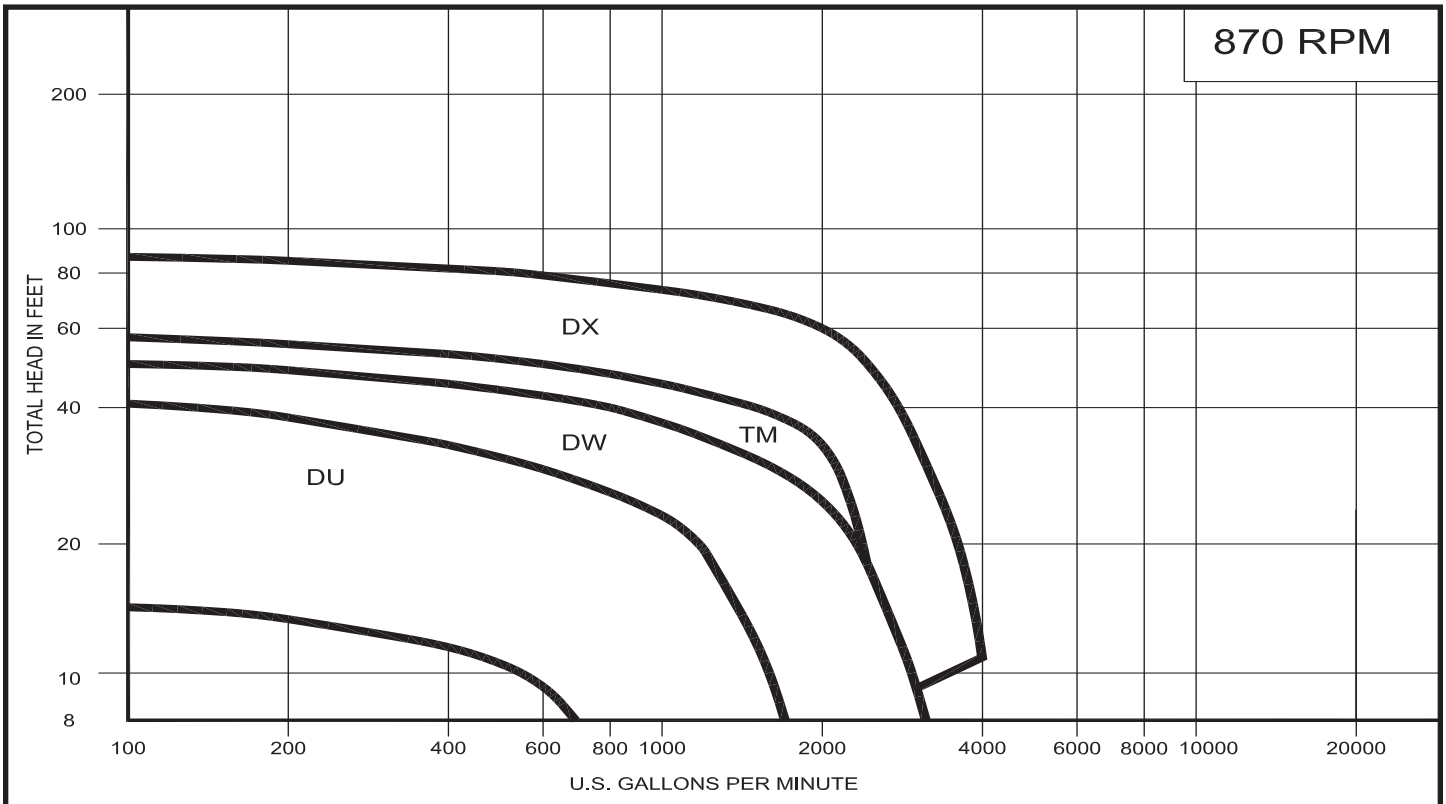
SITHE ***X-Pruf® Submersible Chopper Pumps***



Typical Specifications

8XSCD Submersible Chopper Pumps

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SITHE *X-Pruf® Submersible Chopper Pumps*

FILE: SPEC-8XSCD.doc

SCOPE: Furnish and install_____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____TDH, with a shut off head of _____TDH (minimum) and _____% minimum efficiency at _____U.S.GPM at _____TDH (operating point). The pump motor shall be _____RPM, _____HP (maximum), _____Phase, 60 Hertz, _____Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 8XSCD_____.

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop/ macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire. The pump shall be CSA certified as Class I Div 1 Class C&D explosion proof with a T4 temperature rating.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amido amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 8" flange, slotted to accommodate 8" ANSI or 200mm ISO flanges. The suction side of the volute shall contain 24 points of attachment for accessories and additional configurations including attachment of a 10" ANSI or 250mm ISO flanges.

The pump shaft shall be 416 stainless steel with a tapered impeller fit to reduce rotor imbalance and minimize stress risers associated with stepped shafts. All gaskets shall be of the angular gland compression O-ring type eliminating critical slip fits and the possibility of damage during service associated with sliding O-ring sealing arrangements. The impeller shall be a dual vane design with pump out vanes on both sides.

The chopping mechanism shall consist of a bladed stationary plate and a rotating blade. Both blades shall only be constructed of high quality, ASTM A276 440C stainless steel, heat treated to 56-60 HRC. The rotating blade shall be press-fitted on to the impeller and secured to the impeller by four stainless steel pins. The bladed stationary plate shall be fixed to the volute in eight locations. The bladed stationary plate shall be adjustable to maintain a clearance of 0.001" to 0.008" between the stationary blade and rotating blade. The bladed impeller assembly shall be dynamically balanced to ISO G6.3 specifications. The bladed stationary plate shall be sealed internally against the volute with an O-ring. To upgrade from a submersible solids non clog pump into a chopper pump, the pump manufacturer shall be able to provide the bladed stationary plate, the rotating blade and all other necessary components.

The chopping mechanism shall consist of dual wear ring system. The rotating blade shall operate as a wear ring for the impeller along the outer diameter of the impeller assembly. The matching volute shall be provided with an external replaceable bronze wear ring at the inlet.

The tandem mechanical shaft seals shall be of the single spring design operating in an intermediate oil-filled seal cavity. Pump-out vanes on back side of the impeller shroud shall be large enough to efficiently expel solids away from the seal area. The materials of construction shall be silicon carbide vs. silicon carbide for the pump-end seal and carbon vs. ceramic for the motor-end seal, lapped and polished to a tolerance of one light band, 300 series stainless steel hardware, and Buna-N elastomeric parts. The pump-end seal shall be pinned in place to prevent rotation of the stationary seat and shall seal to the pump housing via an O-ring to maximize heat transfer. Cup mounted seats shall not be considered equal. The seal shall be commercially available and not a pump manufacturer's proprietary design. A moisture sensor detection system consisting of two probes shall be integrated within the oil-filled seal chamber which is isolated from the motor chamber. Units sensing moisture within the motor chamber are not acceptable. Moisture sensing devices utilizing one probe and grounding through the pump case or utilizing a float device are not acceptable. The leads for the moisture detector and temperature sensors shall be contained within the power cable, except that for 1/0 cables, the sensor leads will be in a separate cable.

The pump motor shall be sized to be non-overloading throughout the entire system operating range. The rotor and stator assembly shall be of the standard frame design and the stator pressed into the motor housing for mechanical stability. The motor shall be constructed with the windings operating in a sealed environment containing clean dielectric oil. Manufacturer to supply submergence requirements for continuous operation.

Motors shall be dielectric oil filled for optimal thermal management and maximum bearing life. Air-filled motors with grease-filled bearings shall not be acceptable. The motor windings shall be of Class H, spike-resistant insulation. The motor shall meet the NEMA Design B standard and be Inverter Duty Rated per NEMA MG1, part 31.

The pump shaft shall be of 416 stainless steel, keyed and tapered for the matching impeller. The lower bearing shall be of the double row ball type, locked in position to accept radial and axial thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.

THREE PHASE: Three thermal sensors (one per phase) shall be embedded in the end coil of the stator windings, wired in series and used to monitor stator temperatures. This shall be used in conjunction with an external motor overload protection device and wired to the control panel through the single power cable.

The pump shall be equipped with (50/75/100) ft. of a CSA-qualified submersible quick connect power cable constructed in accordance with type W guidelines and shall include the moisture and temperature sensor leads. The pump shall have dual or tri voltage motors that will provide the ability to change voltage by just changing the power cable. For 21 Frame pumps, the cable entry system shall consist of a voltage-selectable expanding elastomeric plug held in place by a cast stainless steel plate indicating voltage and max amps. For 28 and 32 Frame pumps, cord connection shall be a pump mounted plug and a rigid cord socket contained by a cast iron housing bolted to the motor with epoxy-potted cable connections and sealed by compressed O-rings.

PUMP TEST: The pump manufacturer shall perform a standard three point performance test at the minimum. If certified testing is required, the manufacturer shall offer to perform tests in accordance with Grades B, E and U of Hydraulic Institute standards. Additionally,

1. A check of the motor voltage and frequency shall be made as shown on the name plate.
2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
3. A performance curve from the production line test showing head versus flow shall be included in the Installation and Operation Manual shipped with each pump.
4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

FILE: SPEC-8XSCT.doc

SITHE X-Pruf® Submersible Chopper Pumps

SCOPE: Furnish and install_____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____TDH, with a shut off head of _____TDH (minimum) and _____% minimum efficiency at _____U.S.GPM at _____TDH (operating point). The pump motor shall be _____RPM, _____HP (maximum), _____Phase, 60 Hertz, _____Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 8XSCT_____.

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop/ macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire. The pump shall be CSA certified as Class I Div 1 Class C&D explosion proof with a T4 temperature rating.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amido amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 8" flange, slotted to accommodate 8" ANSI or 200mm ISO flanges. The suction side of the volute shall contain 24 points of attachment for accessories and additional configurations including attachment of a 10" ANSI or 250mm ISO flanges.

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2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
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4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

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SITHE ***X-Pruf® Submersible Chopper Pumps***

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA, CE
WEIGHT	892 lbs (405 Kg)
NOISE EMISSION MAX	In-Air 64 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

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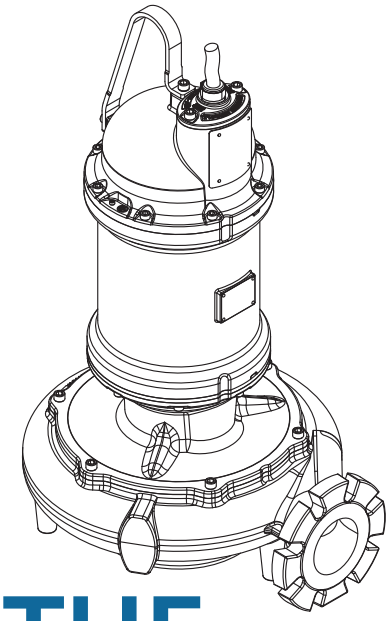

SITHE

Series: 8XSCDU
25 - 30HP, 1750RPM, 60Hz
7.5 - 20HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Series 8XSCDU

28 Frame Driver

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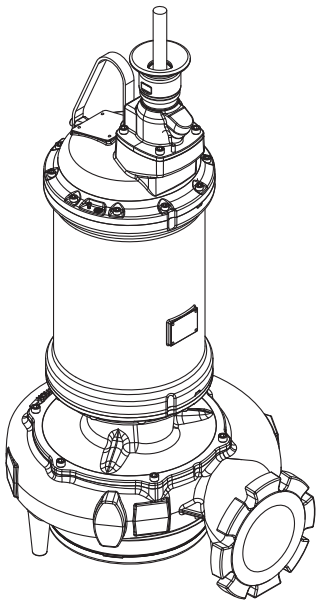

SITHE

Series: 8XSCDU
25 - 60HP, 1750RPM, 60Hz
20 - 25HP, 1150RPM, 60Hz
7.5 - 15HP, 870RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750, 1150 or 870 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1130 lbs (513 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
LR16567

SWPA MEMBER

HYDRAULIC INSTITUTE PROUD MEMBER

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A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SITHE ***X-Pruf® Submersible Chopper Pumps***

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1743 lbs (791 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

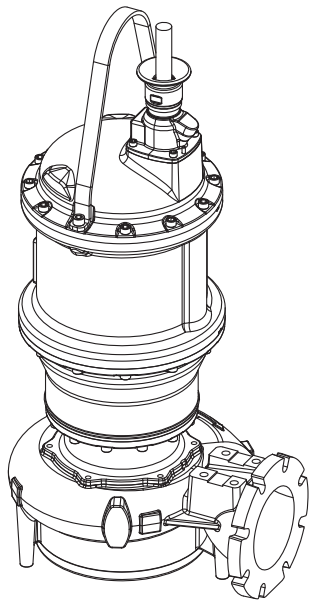
RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
LR16567

SWPA MEMBER

HYDRAULIC INSTITUTE PROUD MEMBER



SITHE

Series: 8XSCDU
75HP, 1750RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

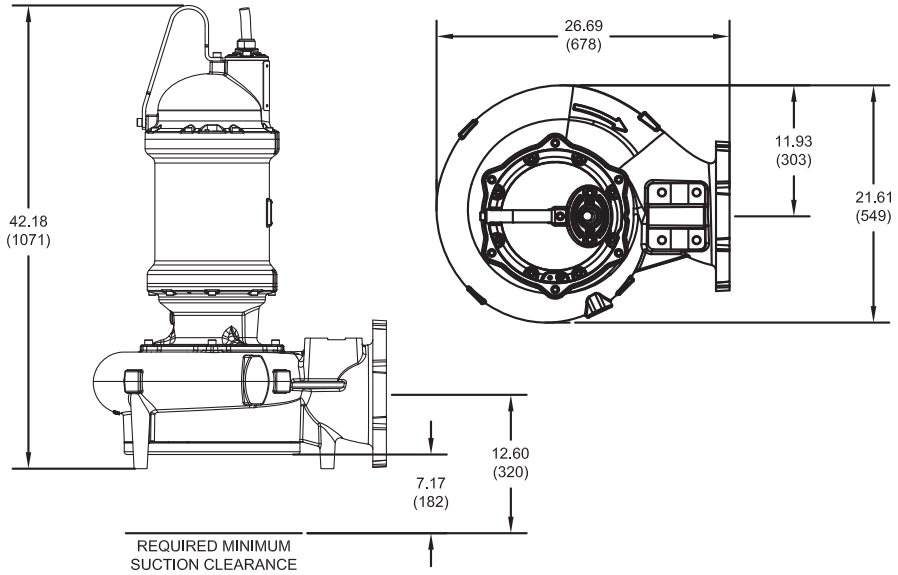
SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

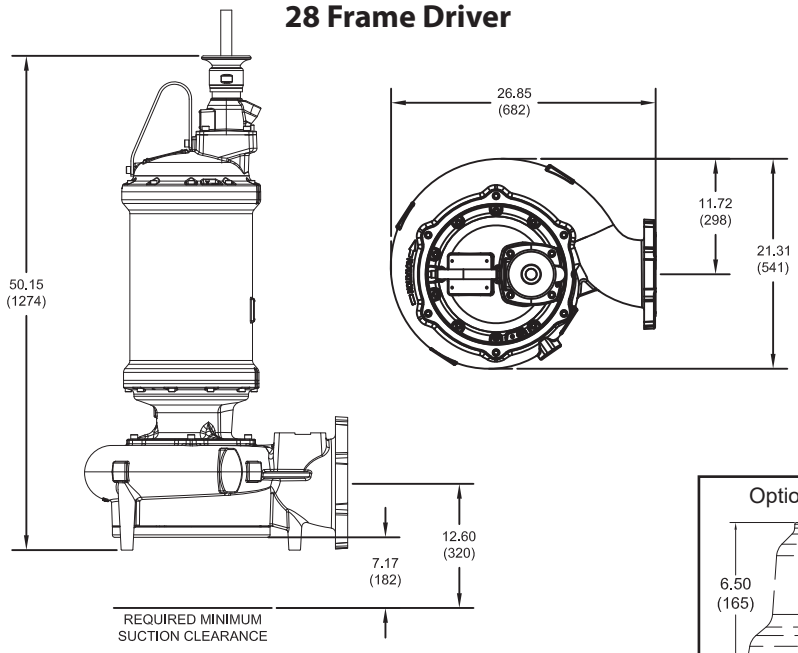
SITHE X-Pruf® Submersible Chopper Pumps

21 Frame Driver

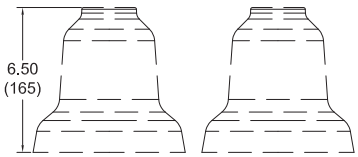
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506B



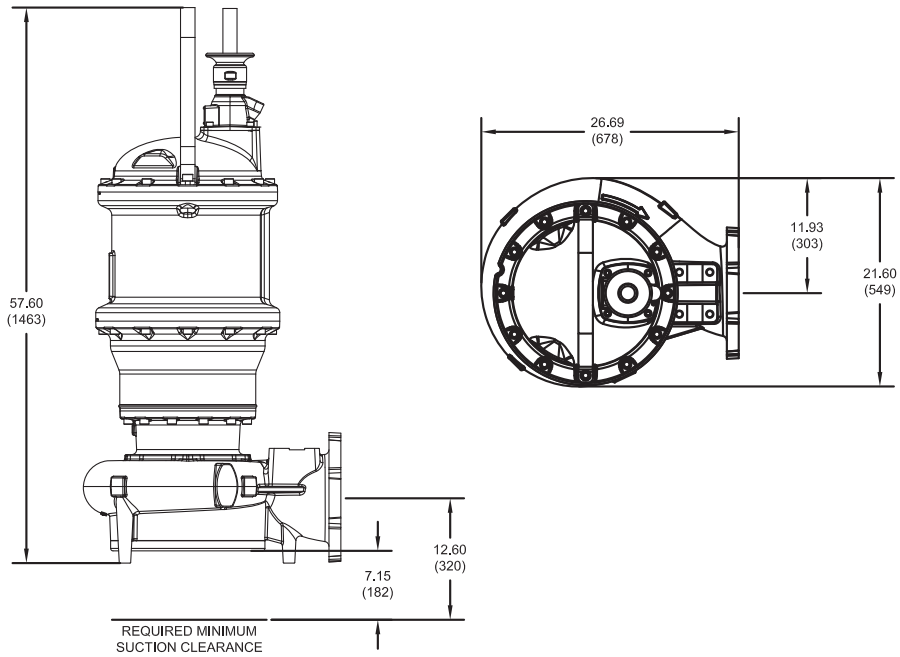
IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

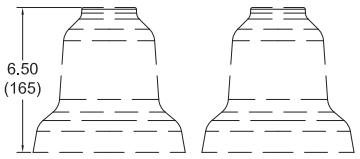
SITHE *X-Pruf® Submersible Chopper Pumps*

32 Frame Driver

inches
(mm)



Optional Leg Kit - p/n 125506B



IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SITHE X-Pruf® Submersible Chopper Pumps

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
8XSCDU Pump	8XSCDU25094	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	28	138319	2/4 - 18/4
			230					71.4		82.3				
	8XSCDU25044	25.0	460	3	60	1750	G	33.2	1.2	38.9	191.9	21	125499	8/4 - 18/4
	8XSCDU25054	25.0	575	3	60	1750	G	26.6	1.2	31.1	153.5	21	125497	12/4 - 18/4
	8XSCDU30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319	2/4 - 18/4
			230					82.3	1.2	98.7				
	8XSCDU30044	30.0	460	3	60	1750	F	38.9	1.2	45.9	191.9	21	125499	8/4 - 18/4
	8XSCDU30054	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499	8/4 - 18/4
	8XSCDU40034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319	2/4 - 18/4
	8XSCDU40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318	6/4 - 18/4
	8XSCDU40054	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138317	8/4 - 18/4
	8XSCDU50044	50.0	460	3	60	1750	F	67.1	1.2	79.0	339.0	28	138318	6/4 - 18/4
	8XSCDU50054	50.0	575	3	60	1750	F	53.7	1.2	63.2	271.2	28	138318	6/4 - 18/4
	8XSCDU60044	60.0	460	3	60	1750	E	79.0	1.2	95.5	339.0	28	138319	2/4 - 18/4
	8XSCDU60054	60.0	575	3	60	1750	E	63.2	1.2	76.4	271.2	28	138318	6/4 - 18/4
	8XSCDU75044	75.0	460	3	60	1750	G	108.4	1.15	120.7	578	32	138319	2/4 - 18/4
	8XSCDU75054	75.0	575	3	60	1750	G	86.7	1.15	96.6	462.4	32	138319	2/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

SITHE *X-Pruf® Submersible Chopper Pumps*

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SCDU Pump	8XSCDU75N6*	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	125496	12/4 - 18/4
			230					24.0		27.6				
			460					12.0		13.8	68.8	21	125497	
	8XSCDU7556*	7.5	575	3	60	1150	J	9.6	1.2	11	55	21	125497	12/4 - 18/4
	8XSCDU100N6	10.0	208	3	60	1150	F	32.9	1.2	41	137.6	21	125498	8/4 - 18/4
			230					30.2	1.2	35.8				
			460					15.1	1.2	17.9	68.8	21	125497	12/4 - 18/4
	8XSCDU10056	10.0	575	3	60	1150	F	12.1	1.2	14.3	55	21	125497	12/4 - 18/4
	8XSCDU150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498	8/4 - 18/4
			230					44.1	1.2	51.4				
			460					22.0	1.2	25.7	124.3	21	125497	12/4 - 18/4
	8XSCDU15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497	12/4 - 18/4
	8XSCDU20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318	6/4 - 18/4
			230					57.2	1.2	69.8				
	8XSCDU20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	124.3	21	125499	8/4 - 18/4
	8XSCDU20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125497	12/4 - 18/4
	8XSCDU25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138319	2/4 - 18/4
			230					70.8	1.2	82.6				
	8XSCDU25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	28	138317	8/4 - 18/4
	8XSCDU25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317	8/4 - 18/4
	8XSCDU7598	7.5	208	3	60	870	L	32.0	1.2	35.0	230.0	28	138317	8/4 - 18/4
			230					34.6		36.9				
	8XSCDU7548	7.5	460	3	60	870	L	17.3	1.2	18.5	115.0	28	138317	8/4 - 18/4
	8XSCDU7658	7.5	575	3	60	870	L	13.9	1.2	14.8	92.0	28	138317	8/4 - 18/4
	8XSCDU10098	10.0	208	3	60	870	L	37.2	1.2	42.0	230.0	28	138317	8/4 - 18/4
			230					38.6		42.2				
	8XSCDU10048	10.0	460	3	60	870	L	19.3	1.2	21.1	115.0	28	138317	8/4 - 18/4
	8XSCDU10058	10.0	575	3	60	870	L	15.4	1.2	16.9	92.0	28	138317	8/4 - 18/4
	8XSCDU15098	15.0	208	3	60	870	G	50.4	1.2	59.0	230.0	28	138317	8/4 - 18/4
			230					48.4		55.6				
	8XSCDU15048	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	28	138317	8/4 - 18/4
	8XSCDU15058	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	28	138317	8/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.
* Select impeller diameter when ordering.

Series 8XSCDU

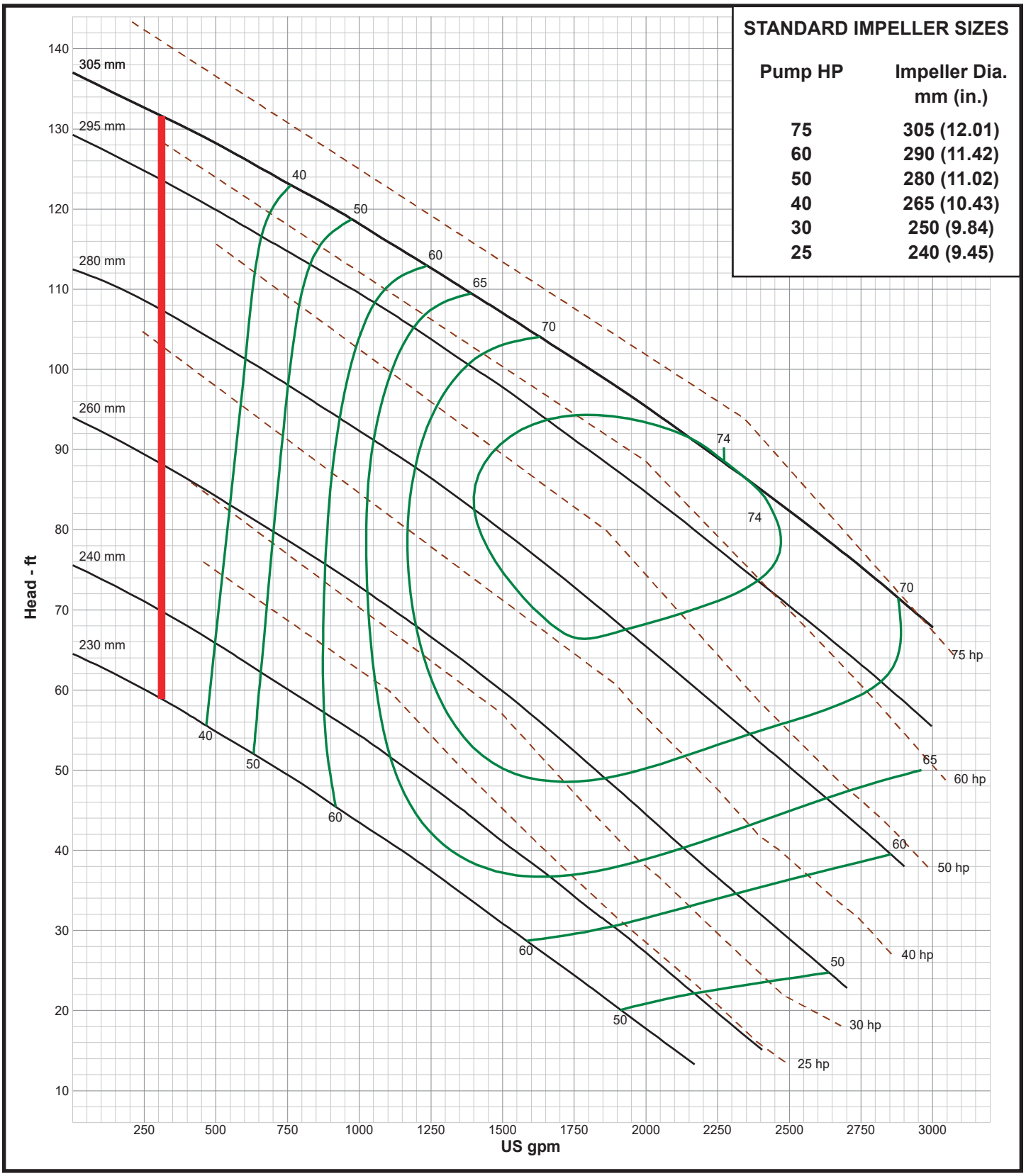
Performance Curve

25 - 100HP, 1750RPM, 60Hz

BARNES®

www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*



STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
75	305 (12.01)
60	290 (11.42)
50	280 (11.02)
40	265 (10.43)
30	250 (9.84)
25	240 (9.45)

CRANE®

A Crane Co. Company

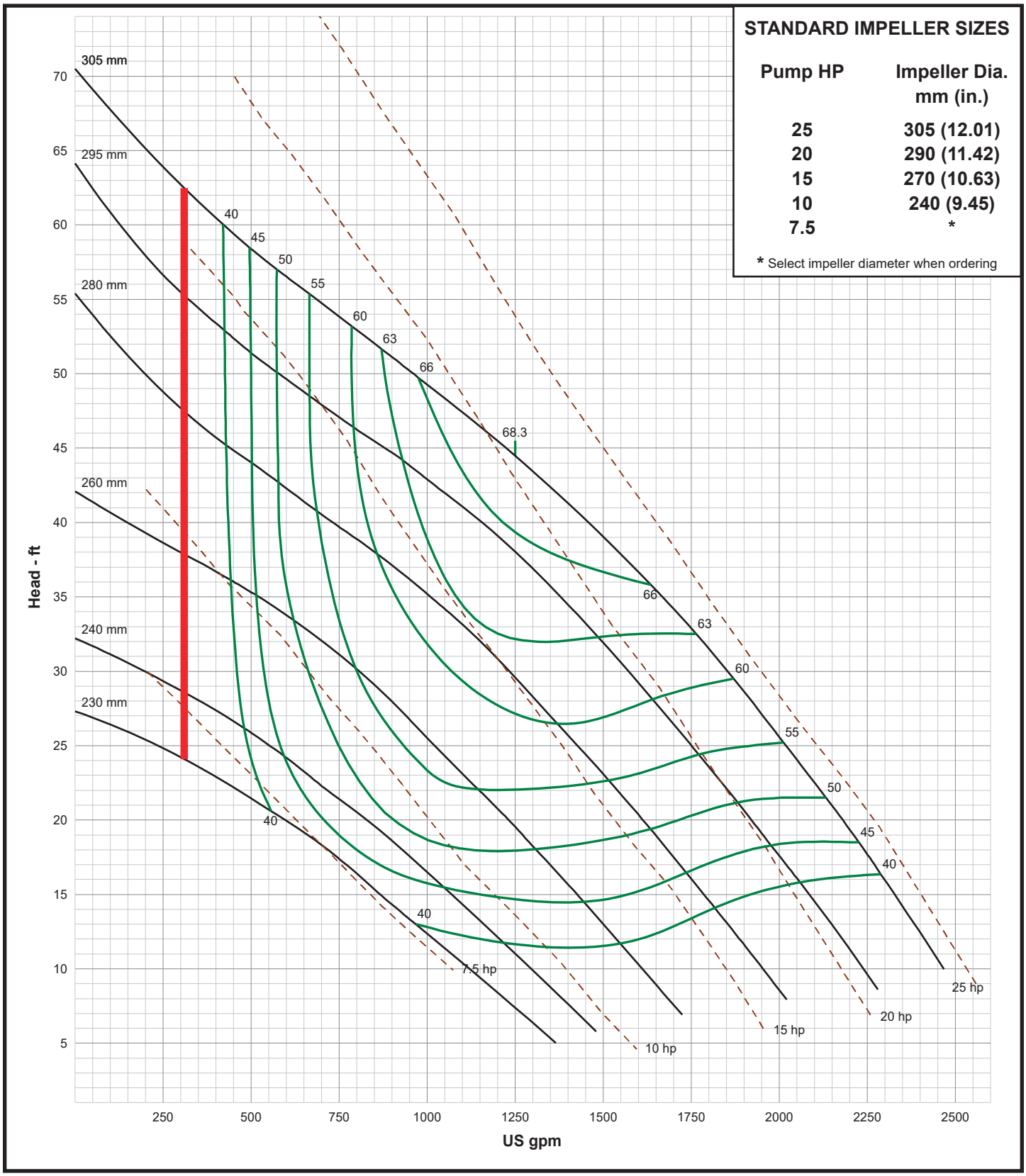
PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series 8XSCDU

Performance Curve
7.5 - 25HP, 1150RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*



STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
25	305 (12.01)
20	290 (11.42)
15	270 (10.63)
10	240 (9.45)
7.5	*

* Select impeller diameter when ordering

Series 8XSCDU

Performance Curve

7.5 - 15HP, 870RPM, 60Hz

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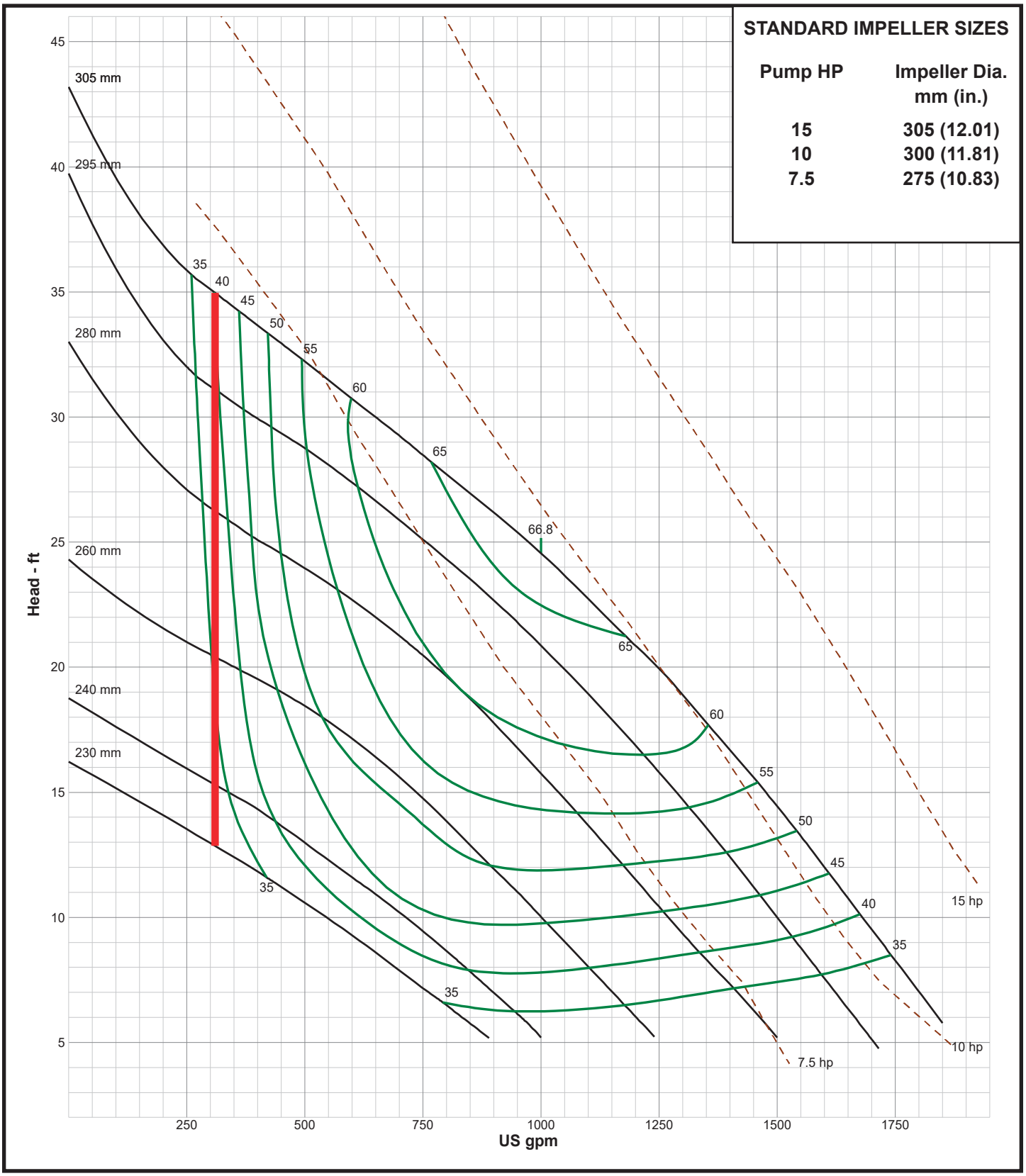
SITHE *X-Pruf® Submersible Chopper Pumps*



SECTION	0.2H
PAGE	10
DATE	2/20

CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

SITHE ***X-Pruf® Submersible Chopper Pumps***

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
Design	Enclosed Tri Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	877 lbs (398 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

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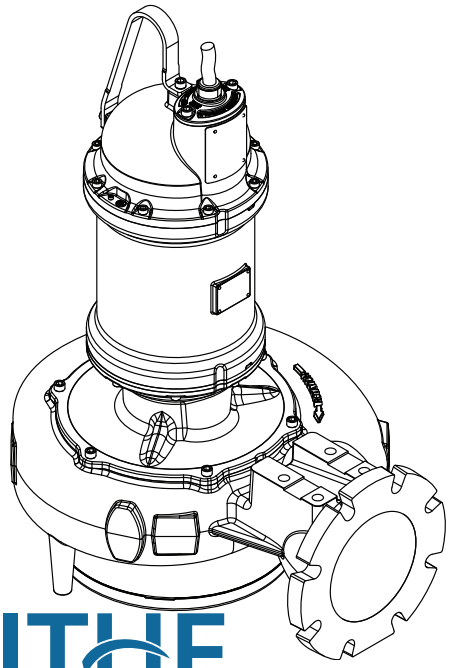
HYDRAULIC INSTITUTE PROUD MEMBER



SITHE

Series: 8XSCTM
20HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page G.

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

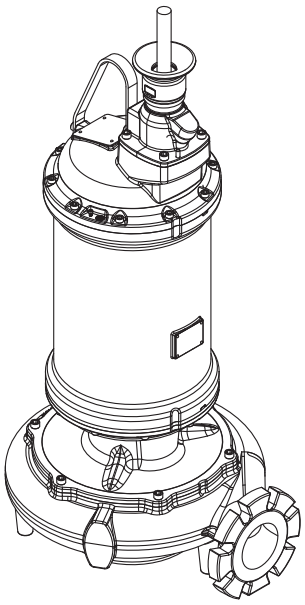
Series 8XSCTM

28 Frame Driver

BARNES®

www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*



SITHE

Series: 8XSCTM
60HP, 1750RPM, 60Hz
20 - 40HP, 1150RPM, 60Hz
7.5 - 30HP, 870RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page G.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
Design	Enclosed Tri Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1150 or 870 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1017 lbs (462 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C US LR16567

SWPA MEMBER

HYDRAULIC INSTITUTE PROUD MEMBER

SITHE ***X-Pruf® Submersible Chopper Pumps***

Specifications:

DISCHARGE	8", 125 lb. Horizontal Flange Slotted to accommodate 200mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 8" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Tri Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750, 1150 or 870 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1801 lbs (817 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
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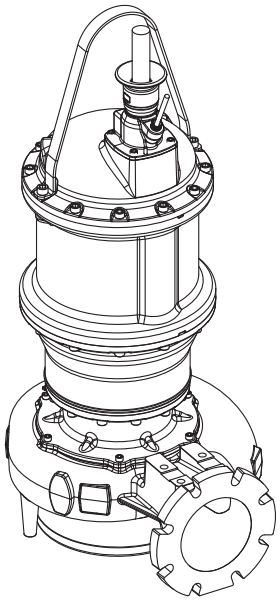

SITHE

Series: 8XSCTM
75 - 150HP, 1750RPM, 60Hz
50 - 100HP, 1150RPM, 60Hz
40HP, 870RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2H Page G.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

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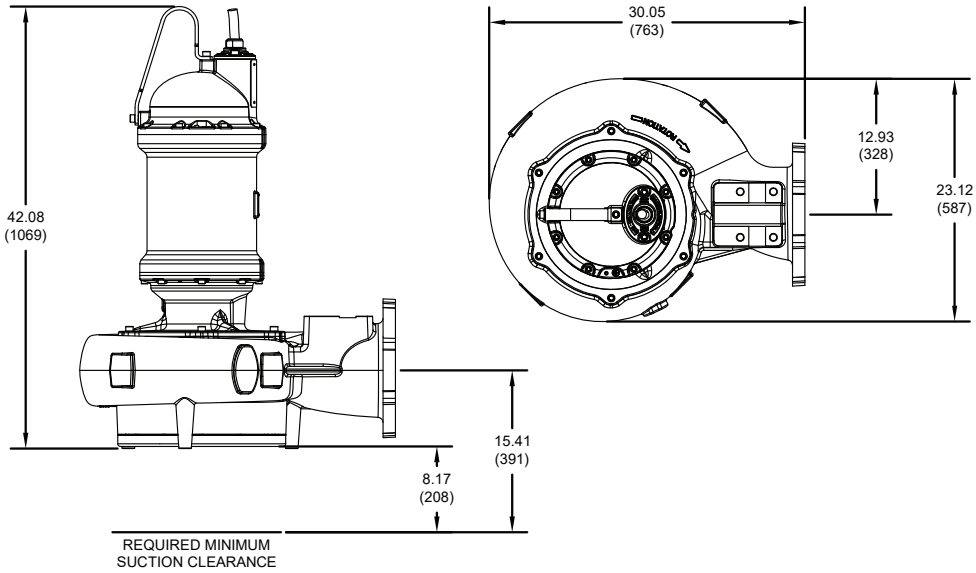
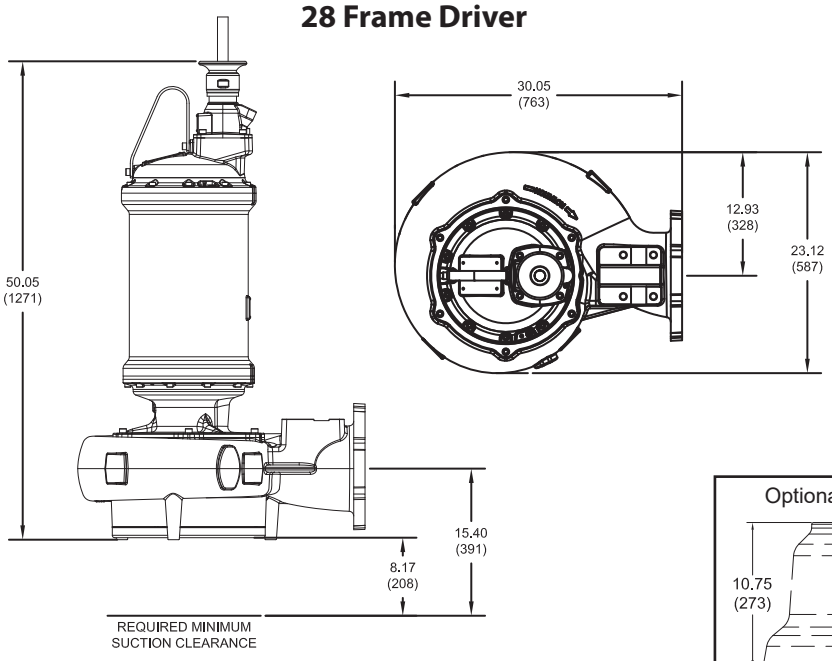
21 Frame Driver

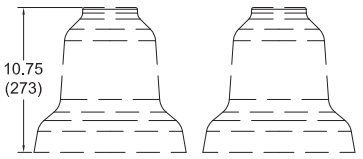
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506C



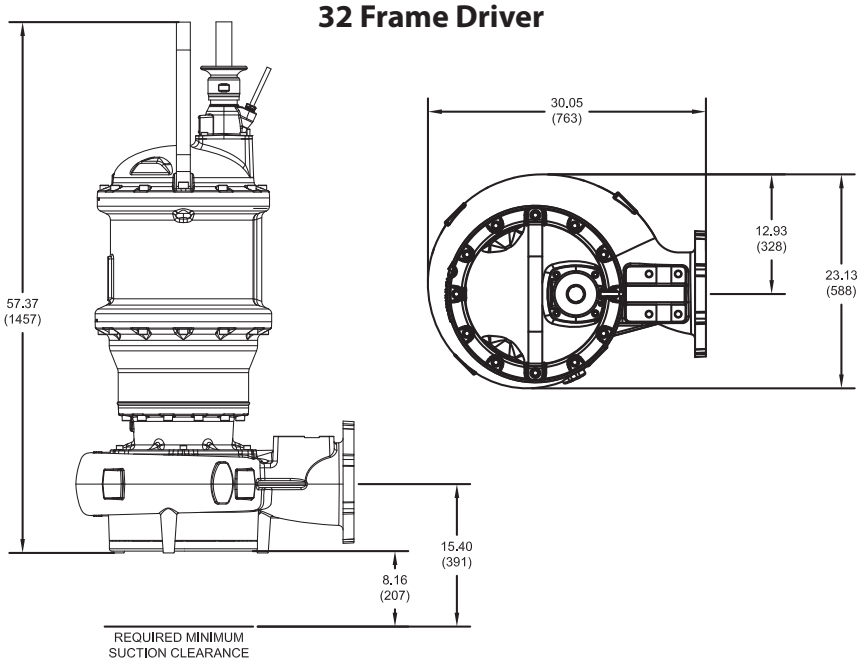
IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
5.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS.

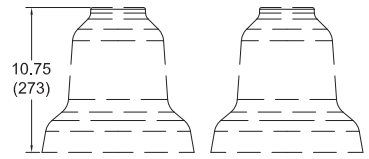
SITHE X-Pruf® Submersible Chopper Pumps

32 Frame Driver

inches (mm)



Optional Leg Kit - p/n 125506C



IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SITHE *X-Pruf® Submersible Chopper Pumps*

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SCTM Pump	8XSCTM60044	60.0	460	3	60	1750	E	79.0	1.2	95.5	339.0	28	138319	2/4 - 18/4
	8XSCTM60054	60.0	575	3	60	1750	E	63.2	1.2	76.4	271.2	28	138318	6/4 - 18/4
	8XSCTM75044	75.0	460	3	60	1750	G	108.4	1.15	120.7	578	32	138319	2/4 - 18/4
	8XSCTM75054	75.0	575	3	60	1750	G	86.7	1.15	96.6	462.4	32	138319	2/4 - 18/4
	8XSCTM100044	100.0	460	3	60	1750	E	136.6	1.15	155.3	578	32	138319	2/4 - 18/4
	8XSCTM100054	100.0	575	3	60	1750	E	109.2	1.15	124.2	462.4	32	138319	2/4 - 18/4
	8XSCTM125044	125.0	460	3	60	1750	F	169.4	1.15	191.5	800.0	32	138320	1/0/4 - 18/4
	8XSCTM125054	125.0	575	3	60	1750	F	135.6	1.15	153.2	640.0	32	138319	2/4 - 18/4
	8XSCTM150044	150.0	460	3	60	1750	D	187.0	1.0	187.0	800.0	32	138320	1/0/4 - 18/4
	8XSCTM150054	150.0	575	3	60	1750	D	159.5	1.0	159.5	640.0	32	138320	1/0/4 - 18/4
	8XSCTM20096*	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318	6/4 - 18/4
			230					57.2	1.2	69.8				
	8XSCTM20046*	20.0	460	3	60	1150	E	28.6	1.2	34.9	124.3	21	125499	8/4 - 18/4
	8XSCTM20056*	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125497	12/4 - 18/4
	8XSCTM25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138319	2/4 - 18/4
			230					70.8	1.2	82.6				
	8XSCTM25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	28	138317	8/4 - 18/4
	8XSCTM25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317	8/4 - 18/4
	8XSCTM30096	30.0	208	3	60	1150	E	90.8	1.2	114.9	354.0	28	138319	2/4 - 18/4
			230					82.6	1.2	99.7				
	8XSCTM30046	30.0	460	3	60	1150	E	41.3	1.2	49.9	177.0	28	138317	8/4 - 18/4
	8XSCTM30056	30.0	575	3	60	1150	E	33.0	1.2	39.9	141.6	28	138317	8/4 - 18/4
	8XSCTM40036	40.0	230	3	60	1150	E	110.4	1.2	131.8	476.0	28	138319	2/4 - 18/4
	8XSCTM40046	40.0	460	3	60	1150	E	55.2	1.2	65.9	238.0	28	138318	6/4 - 18/4
	8XSCTM40056	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	28	138317	8/4 - 18/4
	8XSCTM50046	50.0	460	3	60	1150	H	76.4	1.15	84.0	400.0	32	138318	6/4 - 18/4
	8XSCTM50056	50.0	575	3	60	1150	H	61.2	1.15	67.2	320.0	32	138318	6/4 - 18/4
	8XSCTM60046	60.0	460	3	60	1150	F	86.7	1.15	96.8	400.0	32	138319	2/4 - 18/4
	8XSCTM60056	60.0	575	3	60	1150	F	69.4	1.15	77.4	320.0	32	138318	6/4 - 18/4
	8XSCTM75046	75.0	460	3	60	1150	H	109.3	1.15	119.5	612.0	32	138319	2/4 - 18/4
	8XSCTM75056	75.0	575	3	60	1150	H	87.4	1.15	95.6	489.6	32	138319	2/4 - 18/4
	8XSCTM100046	100.0	460	3	60	1150	E	135.0	1.0	135.0	612.0	32	138319	2/4 - 18/4
	8XSCTM100056	100.0	575	3	60	1150	E	108.0	1.0	108.0	489.6	32	138319	2/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.
* Select impeller diameter when ordering.

SITHE X-Pruf® Submersible Chopper Pumps

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SCTM Pump	8XSCTM7598*	7.5	208	3	60	870	L	32.0	1.2	35.0	230.0	28	138317	8/4 - 18/4
			230					34.6		36.9				
	8XSCTM7548*	7.5	460	3	60	870	L	17.3	1.2	18.5	115.0	28	138317	8/4 - 18/4
	8XSCTM7658*	7.5	575	3	60	870	L	13.9	1.2	14.8	92.0	28	138317	8/4 - 18/4
	8XSCTM10098	10.0	208	3	60	870	L	37.2	1.2	42.0	230.0	28	138317	8/4 - 18/4
			230					38.6		42.2				
	8XSCTM10048	10.0	460	3	60	870	L	19.3	1.2	21.1	115.0	28	138317	8/4 - 18/4
	8XSCTM10058	10.0	575	3	60	870	L	15.4	1.2	16.9	92.0	28	138317	8/4 - 18/4
	8XSCTM15098	15.0	208	3	60	870	G	50.4	1.2	59.0	230.0	28	138317	8/4 - 18/4
			230					48.4		55.6				
	8XSCTM15048	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	28	138317	8/4 - 18/4
	8XSCTM15058	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	28	138317	8/4 - 18/4
	8XSCTM20098	20.0	208	3	60	870	J	69.0	1.2	76.0	400.0	28	138318	6/4 - 18/4
			230					75.1		79.0				
	8XSCTM20048	20.0	460	3	60	870	J	37.6	1.2	41.1	200.0	28	138317	8/4 - 18/4
	8XSCTM20058	20.0	575	3	60	870	J	30.1	1.2	32.9	160.0	28	138317	8/4 - 18/4
	8XSCTM25098	25.0	208	3	60	870	H	82.3	1.2	98.8	400.0	28	138319	2/4 - 18/4
			230					84.0		94.5				
	8XSCTM25048	25.0	460	3	60	870	H	42.0	1.2	47.2	200.0	28	138317	8/4 - 18/4
	8XSCTM25058	25.0	575	3	60	870	H	33.6	1.2	37.8	160.0	28	138317	8/4 - 18/4
	8XSCTM30098	30.0	208	3	60	870	F	98.8	1.2	124.1	400.0	28	138319	2/4 - 18/4
			230					94.5		108.6				
	8XSCTM30048	30.0	460	3	60	870	F	47.2	1.2	54.3	200.0	28	138317	8/4 - 18/4
	8XSCTM30058	30.0	575	3	60	870	F	37.8	1.2	43.5	160.0	28	138317	8/4 - 18/4
	8XSCTM40048	40.0	460	3	60	870	F	62.2	1.15	69.4	275.0	32	138318	6/4 - 18/4
	8XSCTM40058	40.0	575	3	60	870	F	49.8	1.15	55.5	220.0	32	138317	8/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.
* Select impeller diameter when ordering.

CRANE®
A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

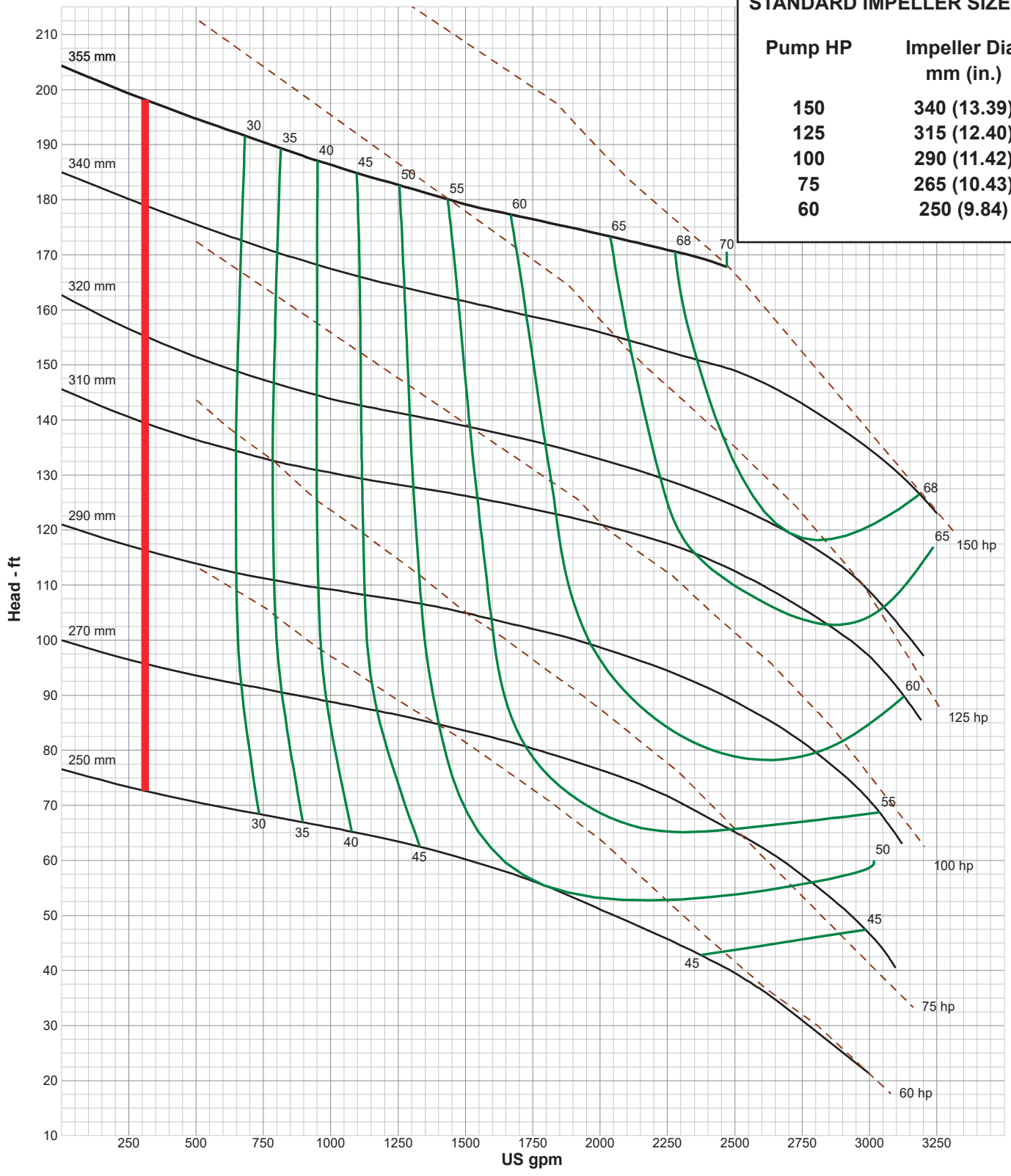
Series 8XSCTM

Performance Curve
60 - 150HP, 1750RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
150	340 (13.39)
125	315 (12.40)
100	290 (11.42)
75	265 (10.43)
60	250 (9.84)



Series 8XSCTM

Performance Curve

20 - 100HP, 1150RPM, 60Hz

BARNES®

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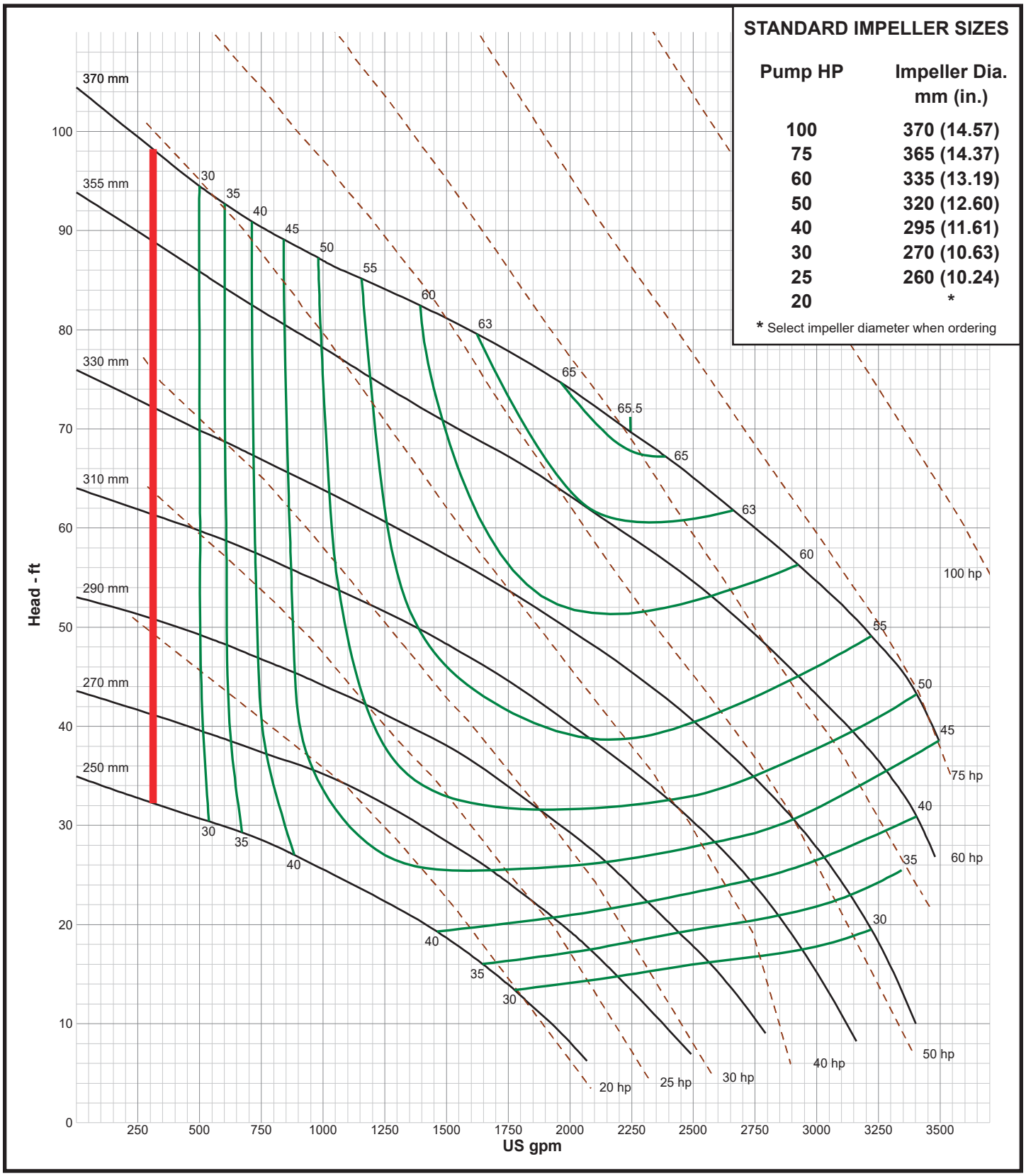
SITHE *X-Pruf® Submersible Chopper Pumps*



STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
100	370 (14.57)
75	365 (14.37)
60	335 (13.19)
50	320 (12.60)
40	295 (11.61)
30	270 (10.63)
25	260 (10.24)
20	*

* Select impeller diameter when ordering

CRANE®

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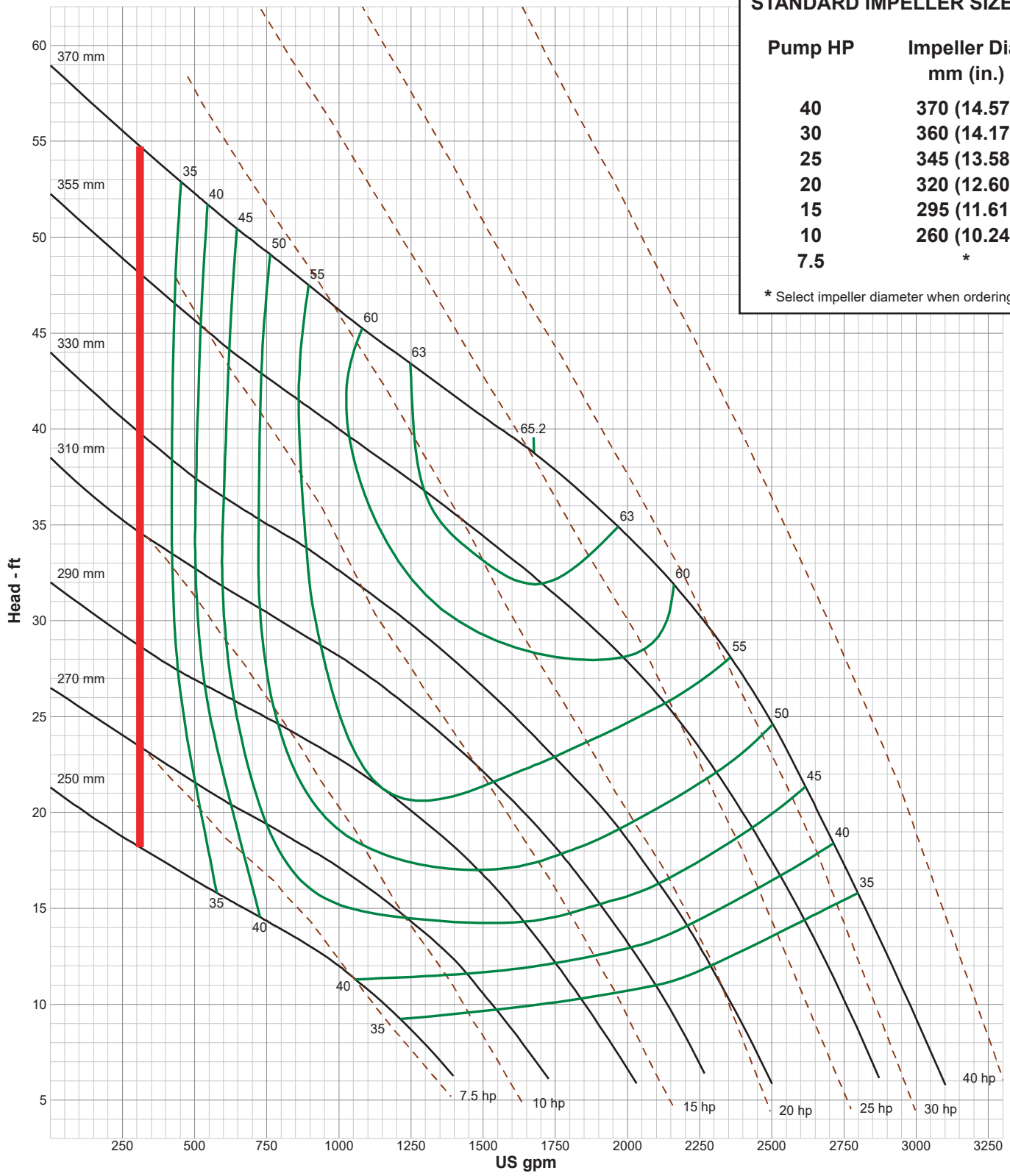
PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series 8XSCTM

Performance Curve
7.5 - 40HP, 870RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*



STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
40	370 (14.57)
30	360 (14.17)
25	345 (13.58)
20	320 (12.60)
15	295 (11.61)
10	260 (10.24)
7.5	*

* Select impeller diameter when ordering

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