



Double Suction Split Case Fire Pump

**Series
4800 & 4900**
(New Generation)



www.flofab.com
001-cat-2016-4000f

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HISTORY

Flo Fab was established in 1981 by Denis Gauvreau who created and developed the products line and constantly being perfected by Marc Gauvreau, as well as by a team of professional engineers and designers. It's a combination of existing designs from several renowned products and the innovative ideas of a new generation professionals.

Through the years, Flo Fab has acquired several companies and service entities including : AQUA-PROFAB (ASME Tanks manufacturer), MÉNARD, LÉONARD ÉLECTRIQUE, PMA. , Furthermore Flo Fab purchased equipment, fabrication designs and patterns from IDEALCO, a manufacturer of shell and tube type heat exchangers.

The after sales services, sales, engineering, R&D, production, quality control, accounting and administration departments of all the above companies share the same location.

In December 2014, Marc Gauvreau, son of the founder, acquired all shares of The company. Flo Fab and is constantly investing in new state of the art innovations new product like the XRI series and Prefab Skid for Hydronic Heating 8 cooling system, pumping systems. This has allowed Flo Fab to retain competent and experienced staff of professionals with varied and specialized abilities that constantly work on improving our existing products and add new engineered solutions that exceeding customer's expectations .

Flo Fab has grown quite rapidly and now proudly offers of a wide range of products available directly from one manufacturer. This includes pumps & pump packages, tanks, heat exchangers & hydronic accessories. This allows each project stakeholders to enjoy economical savings, peace of mind, best value for their investment and optimized total cost of ownership.



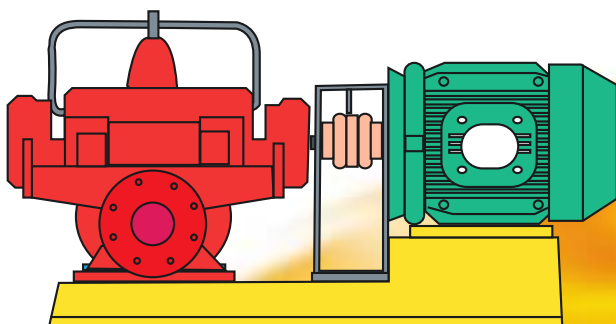


SERIES 4800/4900 - FIRE PUMP



● Product Features

Series 4800/4900 H (New Generation)



Features and Benefits

Application: The series 4800 are double suction split case type and are most commonly applied for fire protection systems or other industrial applications.

Features and Benefits:

The axially split volute casing of this series makes this pump especially easy to service. Inspection of the rotor assembly is possible without removing the pump from the piping. When assembling, the locking of the upper part takes place automatically.

Innovative Casing: Hydraulically optimized casing in several material variants.

Seal Appropriate for the Application: Mechanical seals or asbestos-free gland packing suitable to the application.

Low Vibrations: Small bearing distance and short rotors for low vibration operation.

Variable Components: Same sealing and bearing housing, bearings and seals on both sides.

Power Impeller: Minimum axial thrust for best hydraulic values.

Long-Life Bearings: Covered, grease lubricated rolling element bearings for long operating life.

Operating Data

Sizes: (DN) 80 to 350mm (3" to 14")

Flow: (Q) from 500 USGPM to 5000 USGPM

Head: (H) up to 400 PSI, up to 229m (750ft)

Maximum Operating Pressure: (t) up to 1204 kPa/175 PSI, 1720kPa/250 PSI

Maximum Operating Temperature: (P) up to 225°F/107°C, 250°F/120°C

Speed: (n) up to 3450 RPM



• Typical Specifications

GENERAL

The pumps furnished for fireprotection service shall be supplied with the specified drivers, controls and pump accessory items by the pump manufacturer. The pump, driver and control shall be

- Underwriters Laboratories (UL) Listed
- Factory Mutual Research Corporation (FM) Approved
- Underwriters Laboratories-Canada (ULC) Listed for fire protection service. The pumping equipment shall be installed as recommended in the National Fire Protection Association (NFPA) Pamphlet 20, Standard for the Installation of Centrifugal Fire Pumps. The fire pump shall be designed to deliver _____ U.S. gallons per minute (USGpm) at a total differential pressure of _____ psiG. The fire pump shall also be capable of delivering not less than 150% of rated flow at not less than 65% rated head. Flo Fab Pump model _____ shall be furnished with driver, controllers and accessories as detailed in this specification. Pump manufacturer shall have unit responsibility for the proper operation of the complete unit assembly as indicated by field acceptance tests.

MANUFACTURER'S FACTORY TESTS

Each individual pump shall be hydrostatically tested and run tested prior to shipment. The pump shall be hydrostatically tested at a pressure of not less than one and one-half times the no flow (shut off) head of the pump's maximum diameter impeller plus the maximum allowable suction head but in no case less than 250 psig

FIELD ACCEPTANCE TEST

A field acceptance performance test shall be conducted upon completion of pump installation. The test shall be made by flowing water through calibrated nozzles, approved flow meters or other such accurate devices as may be selected by the authority having jurisdiction. The test shall be conducted as recommended in NFPA Pamphlet 20 by the

- installing contractor
- the owner
- the owner's representative
- (other) _____

in the presence of the authority having jurisdiction and with that authority's final approval and acceptance. Failure to submit documentation of factory and field tests will be just cause for equipment rejection.

HORIZONTAL CENTRIFUGAL PUMPS

The fire pump shall be of horizontal centrifugal (single stage) (multistage) construction specifically labeled for fire service and shall be a Flo Fab Pump model _____

The pump shall be connected to the (fire standpipe) (fire sprinkler) (underground fire main) system. The suction supply for the fire pump shall be from a (public service water main) (elevated storage tank) (ground storage tank) (underground reservoir) at a maximum pressure of _____ pounds per square inch (psig) and a minimum pressure of _____ psig. The pump casing

shall be cast iron with _____ inch 125 pound ANSI rated suction and _____ inch(125)(250) pound ANSI rated discharge flanges machined to American National Standards Institute (ANSI) dimensions.

ELECTRIC MOTORS

The pump driver shall be horizontal foot mounted ball bearing induction motor rated _____ horsepower, 3 phase, (50)(60) Hertz with open ODP and TEFC NEMA _____ enclosure for operation on _____ volt phase service. The motor locked rotor current shall not exceed the values stated in NFPA Pamphlet 20. The motor shall be mounted on a steel base common to the pump and shall be connected to the pump with a flexible coupling protected by a suitable guard. The fire pump manufacturer shall accurately align the pump and motor shafts prior to shipment. After field installation but prior to grouting the base, a millwright or similarly qualified person shall check and verify or correct the shaft alignment.

ELECTRIC MOTOR CONTROLLERS

The automatic electric motor controller shall be (UL listed)(FM approved) specifically for fire pump service. The controller shall be designed for full voltage part winding primary resistance reduced voltage

- wye-delta open transition
- wye-delta closed transition
- auto-transformer
- solid state (soft start)

type starting. The controller shall be rated for the horsepower specified in this specification's electric motors section. The controller shall be capable of interrupting a short circuit current at least equal to the available short circuit current in the controller supply circuit. This fire pump

controller installation requires an withstand rating of not less than amps RMS symmetrical at an operating voltage of volts. The controller shall be:

- floor or wall mounted for electrical connection to the motor by the equipment installer.
- mounted on a common base with the fire pump and wired to the motor by the pump manufacturer.

FITTINGS

The pump manufacturer shall furnish piping accessory items for the pump installation which will adapt the pump connections to the fire protection system and test connection as follows.

Fittings subjected to pump discharge pressure shall be ANSI (125)(250) pound rating. Fittings subjected to suction pressure shall be ANSI 125 pound rating.

- eccentric tapered suction reducer
- concentric tapered discharge increaser
- hose valve test header
- hose valves with caps and chains
- pump casing relief valve
- automatic air release valve
- hose valve head drain valve
- suction and discharge pressure gauges

Subject to change without notice.

Additional accessories required when pump is engine or steam turbine driven:

- main relief valve:
- direct acting (spring actuated)
- pilot operated (hydraulically actuated)
- relief valve overflow cone, enclosed type
- discharge tee with elbow (for mounting relief valve)

DIESEL ENGINES

The pump driver shall be a horizontal shaft type internal combustion engine Model manufactured by: rated at rpm, clockwise rotation viewed from the end opposite the pump. The engine shall be provided by the pump manufacturer with, at a minimum, the following accessories for automatic operation.

- cooling waterlines, pressure regulator, strainer, bypass lines and necessary fittings for engine cooling system, pre-piped and factory mounted.
- flexible exhaust connector
- residential exhaust silencer
- engine jacket water heater, factory installed.
- one set dual batteries, lead acid storage type.
- fuel system as recommended in NFPA Pamphlet 20
- fuel storage tank sized to provide a minimum supply of one gallon of fuel per engine maximum rated horsepower plus 5% for sump area plus 5% for expansion area. The tank shall be furnished (with)(without) legs for floor mounting and with a direct reading level gauge. Fuel tank shall (single wall)(dual wall) UL listed; single wall non-listed
- The engine shall be run tested with the pump by the pump manufacturer prior to shipment.

ENGINE CONTROLLERS

The automatic engine controller shall be (UL listed)(FM approved) specifically for fire pump service. The controller must be capable of performing or contain the following features: Built in battery charger

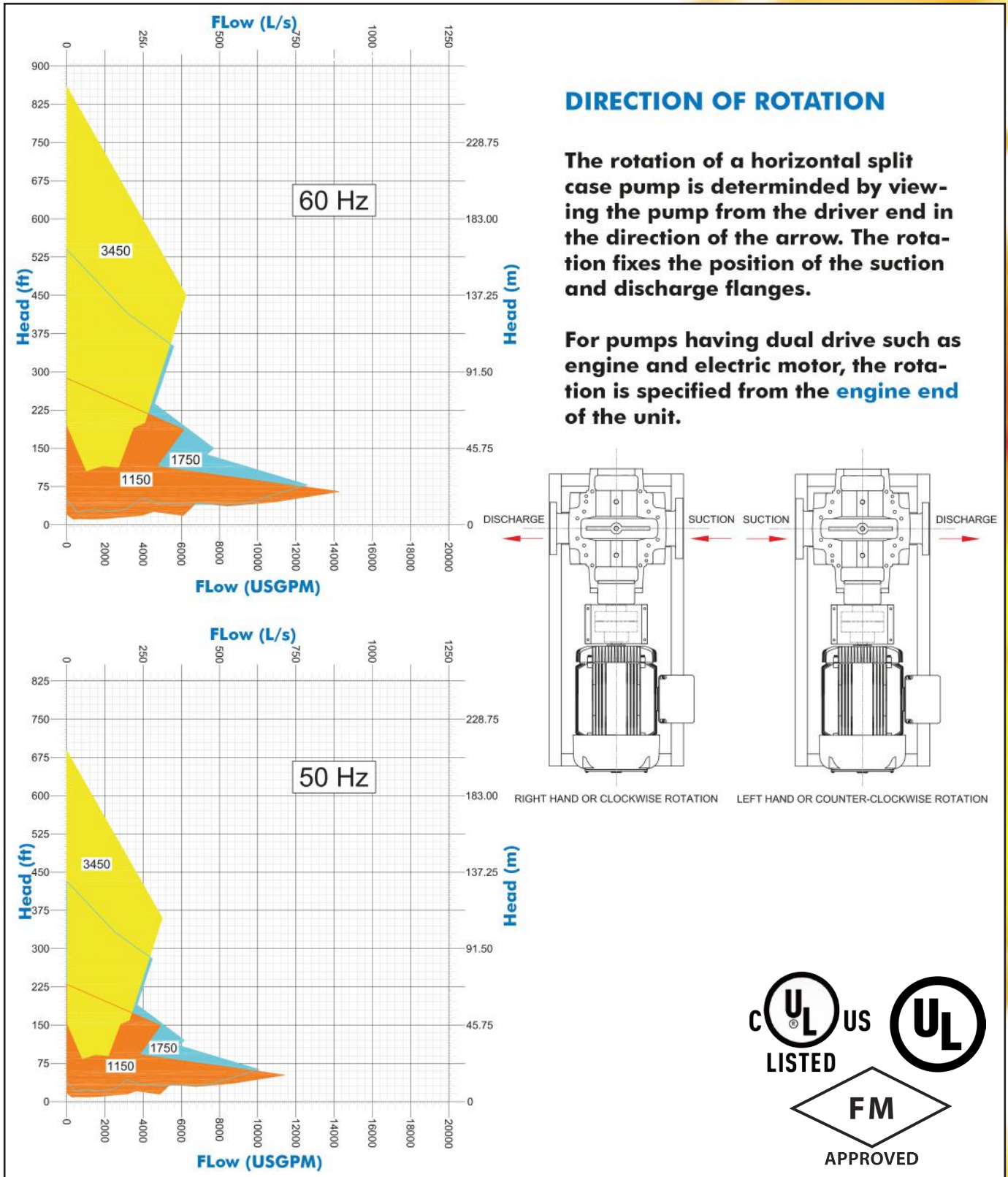
- time clock for weekly automatic test
- system pressure recorder
- timing relay for automatic stop
- power failure start
- low fuel level switch
- pump room alarm audible and visual signals
- The controller shall be wired to the corresponding engine function terminals and shall be mounted on a common base with the engine and pump. A complete running test of the base mounted controller, engine and pump shall be performed by the pump manufacturer prior to shipment.
- The engine controller shall be floor mounted for electrical connection to the engine by the





● Performance Curves

Series 4800 & 4900 (New Generation)



DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 50GPM
RATED FLOW 11.4M3/H

HEAD				Impeller	PUMP MODEL UL ONLY	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER					
PSI	FEET	METER	Dia.mm			RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW
76	175	53	Min.190mm	ESF40/20 (2.5"x1.5") UL(76-111psi)	2980 (50Hz)	13	9.7	TDC 254T15U2B	15	11	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60	
80	185	56				14	10.4										
85	196	60				15	11.2										
90	208	63				16	11.9										
95	219	67				17	12.7	TDC 256T20U2B	20	15							
100	231	70				18	13.4										
105	242	74				19	14.2										
110	254	77	Max.225mm			20	14.9										
108	249	76	Min.190mm	ESF40/20 (2.5"x1.5") UL(108-157psi)	3550 (60Hz)	20	14.9	TDC 256T20U2B	20	15	/	/	/	/	/	/	
110	254	77				21	15.6										
115	265	81				22	16.4										
120	277	84				23	17.1										
125	288	88				24	17.9	TDC 284TS25U2B	25	18.5							
130	300	91				25	18.6										
135	311	95				26	19.4										
140	323	98				27	20.1										
145	335	102				28	20.9	TDC 286TS30U2B	30	22							
150	346	106				29	21.6										
155	358	109				30	22.4										
157	362	110	Max.225mm			30	22.4										

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 300GPM
RATED FLOW 68M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
83	58	SCF125-80-250 (5x3") UL/FM testing in process	2950 (50Hz)	39	TDC 286TS40U2B	40	NM4-90/2950rpm	51	IF05AH-F/2940RPM	80
91	64			42						
97	68			46	TDC 324TS50U2B	50				
104	73			48						
111	78			51						
117	82			60	TDC 326TS60U2B	60	NM4-105/2950rpm	86		
124	87			66						
132	93			72	TDC 365TS75U2B	75				
135	95	SCF125-100-300 (5x4") UL(123-195psi) FM(123-195psi)	2980 (50Hz)	80	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05AH-F/2940RPM	80
140	98			83	TDC 365TS100U2B	100			NM4-108/2950rpm	93
145	102			85						
150	106			88						
155	109			90						
160	113			92						
165	116			94						
170	120			98						
175	123			100						
180	127			102						
185	130			105						
190	134			106						
195	137			107						
121	85	SCF125-80-250 (5x3") UL/FM testing in process	3550 (60Hz)	63	TDC 326TS60U2B	60	/	/	/	/
124	87			66	TDC 365TS75U2B	75				
131	92			70						
138	97			76						
144	101			80	TDC 365TS100U2B	100				
151	106			87						
158	111			92						
165	116			99						
171	120			105						
178	125			111	TDC 404TS125U2B	125				
185	130			117						
192	135			125						
199	140	SCF125-100-300 (5x4") UL (176-279psi) FM(176-279psi)	3550 (60Hz)	135	TDC 404TS125U2B	125	/	/	/	/
206	145			139	TDC 405TS150U2B	150				
213	150			143						
220	155			147						
227	160			151						
235	165			155						
242	170			159						
249	175			163						
256	180			168	TDC 444TS200U2B	200				
263	185			172						
270	190			176						
277	195			180						
280	197			181						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: "*" is -4% speed range, "##" is +4% speed range.

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 400GPM
 RATED FLOW 91M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL（TECHTOP&UL）	HP	MODEL（NM&UL）	HP	MODEL(DE MAAS&FM)	HP
81	57	SCF125-80-250 (5x3") UL/FM testing in process	2950 (50Hz)	39	TDC 286TS40U2B	40	NM4-90/2950rpm	51	IF05AH-F/2940RPM	80
88	62			42						
95	67			46	TDC 324TS50U2B	50				
102	72			48						
109	77			51	TDC 326TS60U2B	60	NM4-105/2950rpm	86		
115	81			60						
122	86			66						
131	92					72	TDC 365TS75U2B	75		
135	95	SCF125-100-300 (5x4") UL(120-189psi) FM(120-189psi)	2980 (50Hz)	80	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05AH-F/2940RPM	80
142	100			83					TDC 365TS100U2B	100
149	105			86						
156	110			90						
163	115			92						
171	120			94						
178	125			101						
185	130			105						
190	134	107								
120	84	SCF125-80-250 (5x3") UL/FM testing in process	3550 (60Hz)	63	TDC 326TS60U2B	60	/	/	/	/
122	86			66	TDC 365TS75U2B	75				
129	91			70						
137	96			76						
144	101			80	TDC 365TS100U2B	100				
149	105			87						
157	110			92						
164	115			99						
169	119			105						
176	124			111	TDC 404TS125U2B	125				
184	129			117						
192	135			125						
199	140	SCF125-100-300 (5x4") UL(173-274psi) FM(173-274psi)	3550 (60Hz)	137	TDC 404TS125U2B	125	/	/	/	/
206	145			141	TDC 405TS150U2B	150				
213	150			145						
220	155			149						
227	160			153						
235	165			157						
242	170			161						
249	175			165	TDC 444TS200U2B	200				
256	180			169						
263	185			174						
270	190			178						
276	194			181						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "##" is -4% speed range, "##" is +4% speed range.

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 500GPM
 RATED FLOW 114M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER								
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP					
77	54	SCF125-80-250 (5x3") UL/FM testing in process	2950 (50Hz)	39	TDC 286TS40U2B	40	NM4-90/2950rpm	51	IF05AH-F/2940RPM	80					
85	60			42											
92	65			46	TDC 324TS50U2B	50	NM4-105/2950rpm	86							
100	70			50											
107	75			54											
114	80			60	TDC 326TS60U2B	60									
121	85			66											
129	91			72	TDC 365TS75U2B	75									
135	95	SCF125-100-300 (5x4") UL(117-184psi) FM(117-184psi)	2980 (50Hz)	82	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05ATH-F/2940rpm	130					
142	100			85	TDC 365TS100U2B	100	NM4-108/2950rpm	93							
149	105			88											
156	110			92			NM6-102/2950rpm	126							
163	115			94											
171	120			101											
178	125			103											
185	130			107											
185	130	SCF125-80-350G (5x3") UL(169-251psi) FM(169-251psi)	2980 (50Hz)	139	TDC 405TS150U2B	150	NM6-102B/2980rpm	153	IF05ATIH-F/2940rpm	177					
192	135			145			NM6-110D/2900rpm	268							
199	140			153	TDC 444TS200U2B	200									
206	145			166											
213	150			176											
220	155			184							IF07ATIH-F/2940rpm	240			
227	160			193											
235	165			202											
242	170			210											
249	175			220											
256	180			2980 (50Hz)	218	TDC 444TS200U2B	200	NM6-110D/2900rpm	268	IF07ATIH-F/2940rpm	240				
263	185				225	TDC 449TS250U2B	250								
270	190				233							IF07BTIH-F/2940rpm	271		
277	195				241										
117	82	SCF125-80-250 (5x3") UL/FM testing in process	3550 (60Hz)	63	TDC 326TS60U2B	60	/	/	/	/					
120	84			66	TDC 365TS75U2B	75									
127	89			70											
134	94			76	TDC 365TS100U2B	100									
141	99			80											
148	104			87											
155	109			92											
162	114			99											
168	118			105											
175	123			111	TDC 404TS125U2B	125									
182	128			117											
191	134			125											
192	135	SCF125-100-300 (5x4") UL(170-269psi) FM(170-269psi)	3550 (60Hz)	134	TDC 404TS125U2B	125									
199	140			139	TDC 405TS150U2B	150									
206	145			143											
213	150			147											
220	155			151											
227	160			155											
235	165			159	TDC 444TS200U2B	200									
242	170			163											
249	175			169											
256	180			173											
263	185			177											
270	190			182											
277	195	SCF150-125-310 (6x5") UL(196-294psi)	3550 (60Hz)	279	TDC 449TS250U2B	250									
284	200			287	TDC 447TS300U2B	300									
291	205			295											
293	206			296											

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland
 Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge
 Note: *** is -4% speed range, **# is +4% speed range.
 Diesel engine unit price includes: pump , diesel engine , baseplate, package
 Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakege

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 750GPM
RATED FLOW 171M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER															
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP												
107	75	SCF125-80-250 (5x3")	2950 (50Hz)	66	TDC 365TS75U2B	75	NM4-105/2950rpm	86	F05AH-F/2940RPM	80												
115	81	UL/FM testing in process		72																		
121	85	SCF125-100-300 (5x4") UL(104-163psi) FM(104-163psi)	2980 (50Hz)	82	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05ATH-F/2600rpm	130												
128	90			87	TDC 365TS100U2B	100	NM4-108/2950rpm	93														
135	95			91			NM6-102/2950rpm	126														
142	100			94																		
149	105			99																		
156	110			103																		
163	115			107																		
171	120	SCF125-80-350G (5x3") UL(169-251psi) FM(169-251psi)	2980 (50Hz)	134	TDC 405TS150U2B	150	NM6-102B/2980rpm	153	IF05ATIH-F/2940rpm	177												
178	125			141			TDC 444TS200U2B	200			NM6-110D/2900rpm	268	IF05BTIH-F/2940RPM	193								
185	130			152											IF07ATIH-F/2940rpm	240						
192	135			151													TDC 449TS250U2B	250	NM6-110D/2900rpm	268	IF07ATIH-F/2940rpm	240
199	140			159																		
206	145			168	IF07CTIH-F/2940rpm	301																
213	150			176					TDC 447TS300U2B	300			NM6-104B/2940rpm	301								
220	155			184	TDC 447TS350U2B	350	/	/			/	/										
227	160			192					TDC 449TS400U2B	400			/	/	/	/						
235	165			201	TDC 449TS250U2B	250	NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271										
242	170			209					TDC 447TS300U2B	300			NM6-104B/2940rpm	301	IF07CTIH-F/2940rpm	301						
249	175			217	TDC 449TS400U2B	400	/	/			/	/										
256	180	225	TDC 449TS250U2B	250					NM6-110D/2900rpm	268			IF07ATIH-F/2940rpm	240								
263	185	233			TDC 447TS300U2B	300	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
270	190	241	TDC 447TS350U2B	350					/	/			/	/								
272	191	252			TDC 449TS250U2B	250	NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271										
277	195	263	TDC 447TS300U2B	300					NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301								
284	200	276			TDC 447TS350U2B	350	/	/			/	/										
291	205	289	TDC 449TS400U2B	400					/	/			/	/								
299	210	302			TDC 449TS250U2B	250	NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271										
306	215	315	TDC 447TS300U2B	300					NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301								
313	220	328			TDC 447TS350U2B	350	/	/			/	/										
320	225	339	TDC 449TS400U2B	400					/	/			/	/								
327	230	355			TDC 449TS250U2B	250	NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271										
334	235	369	TDC 447TS300U2B	300					NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301								
341	240	382			TDC 449TS400U2B	400	/	/			/	/										
348	245	394	TDC 449TS250U2B	250					NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271								
355	250	407			TDC 447TS300U2B	300	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
363	255	421	TDC 449TS400U2B	400					/	/			/	/								
367	258	429			TDC 449TS250U2B	250	NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271										
102	72	63	TDC 326TS60U2B	60					NM6-110D/2900rpm	268			IF07BTIH-F/2940rpm	271								
107	75	66			TDC 365TS75U2B	75	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
114	80	70	TDC 365TS100U2B	100					/	/			/	/								
121	85	76			TDC 365TS75U2B	75	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
128	90	80	TDC 365TS100U2B	100					/	/			/	/								
135	95	87			TDC 365TS75U2B	75	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
142	100	92	TDC 365TS100U2B	100					/	/			/	/								
149	105	99			TDC 365TS75U2B	75	NM6-104B/2940rpm	301			IF07CTIH-F/2940rpm	301										
157	110	105	TDC 365TS100U2B	100					/	/			/	/								
164	115	111			TDC 404TS125U2B	125	/	/			/	/										
171	120	117	TDC 404TS125U2B	125					/	/			/	/								
179	126	125			TDC 404TS125U2B	125	/	/			/	/										
185	130	141	TDC 404TS125U2B	125					/	/			/	/								
192	135	145			TDC 405TS150U2B	150	/	/			/	/										
199	140	149	TDC 405TS150U2B	150					/	/			/	/								
206	145	154			TDC 405TS150U2B	150	/	/			/	/										
213	150	158	TDC 405TS150U2B	150					/	/			/	/								
220	155	162			TDC 405TS150U2B	150	/	/			/	/										
227	160	168	TDC 405TS150U2B	150					/	/			/	/								
235	165	172			TDC 444TS200U2B	200	/	/			/	/										
242	170	177	TDC 444TS200U2B	200					/	/			/	/								
247	174	181			TDC 444TS200U2B	200	/	/			/	/										
256	180	257	TDC 449TS250U2B	250					/	/			/	/								
263	185	263			TDC 449TS250U2B	250	/	/			/	/										
270	190	275	TDC 449TS250U2B	250					/	/			/	/								
277	195	281			TDC 447TS300U2B	300	/	/			/	/										
284	200	288	TDC 447TS300U2B	300					/	/			/	/								
291	205	296			TDC 447TS300U2B	300	/	/			/	/										
263	185	265	TDC 447T250U4B	250					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
269	189	272			TDC 447T250U4B	250	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
275	193	281	TDC 447T250U4B	250					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
282	198	292			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
289	203	303	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
296	208	314			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
300	211	322	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
306	215	331			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
312	219	339	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
319	224	348			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
324	228	356	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
332	233	364			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
339	238	374	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
346	243	382			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
351	247	387	TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
360	253	395			TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338								
					TDC 449T300U4B	300	NM6-128/1760rpm	457			DF12TIH-F/1760rpm	338										
			TDC 449T300U4B	300					NM6-12													

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland
Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge
Note: ** is -4% speed range, "H" is +4% speed range.
Diesel engine unit price includes: pump, diesel engine, baseplate, package
Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 1000GPM
RATED FLOW 227M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER									
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP						
98	69	SCF150-125-250 (6x5") UL(103-151psi)	2980 (50Hz)	82	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05ATH-F/2940rpm	130						
100	70			83												
107	75			90	TDC 365TS100U2B	100	NM4-108/2950rpm	93								
114	80			94			NM6-102/2980rpm	126								
121	85			103												
128	90			110												
135	95			117	TDC 404TS125U2B	125										
142	100			123												
148	104			129		NM6-102B/2980rpm	153									
149	105	SCF150-125-310 (6x5") UL(121-192psi)	2980 (50Hz)	134	TDC 404TS125U2B	125	NM6-102B/2980rpm	153	IF05ATIH-F/2940rpm	177						
156	110			141												
163	115			147	TDC 405TS150U2B	150										
171	120			151												
178	125			158							NM6-110D/2900rpm	268				
186	131			170												
188	132	SCF150-125-400 (6x5") UL(191-264psi)	2980 (50Hz)	162	TDC 405TS150U2B	150	NM6-110D/2900rpm	268	IF05ATIH-F/2940rpm	177						
192	135			168	TDC 444TS200U2B	200					F05BTIH-F/2940rpm	193				
199	140			176												
206	145			184												
213	150			192												
220	155			200												
227	160			208												
235	165			216	TDC 449TS250U2B	250					IF07ATIH-F/2940rpm	240				
242	170			224												
249	175			232												
256	180			240												
257	181			241									IF07BTIH-F/2940rpm	271		
259	182			SCF200-150-420 (8x6") UL/FM testing in process	2950 (50Hz)	252	TDC 449TS250U2B	250	NM6-110D/2900rpm	268	IF07BTIH-F/2940rpm	271				
263	185					260			NM6-104B/2940rpm	301	IF07CTIH-F/2940rpm	301				
270	190					272										
277	195	285	TDC 447TS300U2B			300										
284	200	297														
291	205	310				/	/	/	/							
299	210	323														
306	215	331	TDC 447TS350U2B							350						
313	220	339														
320	225	360														
327	230	374														
334	235	386	TDC 449TS400U2B							400						
341	240	398														
348	245	411														
355	250	423														
358	252	429														
129	91	SCF150-125-250 (6x5") UL(130-225psi) & Waiting for FM certification	3550 (60Hz)	118	TDC 404TS125U2B	125	/	/	/	/						
135	95			125	TDC 404TS125U2B	125										
142	100			133												
149	105			141	TDC 405TS150U2B	150										
156	110			149												
163	115			157												
171	120			166												
178	125			174	TDC 444TS200U2B	200										
185	130			182												
192	135			190												
199	140			198												
206	145			206												
213	150			214												
220	155			224												
223	157			226	TDC 449TS250U2B	250										
227	160	SCF150-125-310 (6x5") UL/FM testing in process	3550 (60Hz)	233	TDC 449TS250U2B	250	/	/	/	/						
235	165			241												
242	170			249												
249	175			257												
256	180			265												
263	185			273												
270	190			281	TDC 447TS300U2B	300										
277	195			289												
283	199			296												
253	178			265							TDC 447T250U4B	250				
259	182	272														
266	187	280														
273	192	292	TDC 449T300U4B	300												
280	197	303														
287	202	314														
293	206	322														
299	210	331							TDC 449T350U4B	350						
304	214	339														
310	218	348														
317	223	356														
324	228	364	TDC 449T350U4B	350												
332	233	374														
339	238	382														
346	243	387														
354	249	395							TXC 586/7T400U4B	400						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland
Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge
Note: "" is -4% speed range, "" is +4% speed range.
Diesel engine unit price includes: pump , diesel engine , baseplate, package
Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 1250GPM

RATED FLOW 284M3/H

HEAD		PUMP MODEL	SPEED	MAX	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER				MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
84	59	SCF200-150-250 (8x6") UL/FM testing in process	2950 (50hz)	82	TDC 365TS75U2B	75	NM4-105/2950rpm	86	IF05AH-F/2940rpm	80
85	60			83						
92	65			94	TDC 365TS100U2B	100	NM6-102/2980rpm	126	IF05ATH-F/2940rpm	130
100	70			103						
107	75			113						
114	80			120	TDC 404TS125U2B	125	NM6-102B/2980rpm	153		
121	85			131						
128	90			141						
135	95			150	TDC 405TS150U2B	150	NM6-110D/2900rpm	268	IF05ATIH-F/2940rpm	177
142	100			159						
148	104			168						
149	105	SCF200-150-310 (8x6") UL (112-230psi) FM (112-232psi)	2980 (50Hz)	182	TDC 444TS200U2B	200	NM6-110D/2900rpm	268	IF05BTIH-F/2940rpm	193
156	110			193						
163	115			202						
171	120			212					IF07ATIH-F/2940rpm	240
178	125			221	TDC 449TS250U2B	250	NM6-104B/2940rpm	301	IF07BTIH-F/2940rpm	271
185	130			230						
192	135			241						
199	140			251						
206	145			260						
213	150			268						
220	155	SCF200-150-420 (8x6") UL/FM testing in process	2950 (50Hz)	279			NM6-110D/2900rpm	268	IF07CTIH-F/2940rpm	301
227	160			289	TDC 447TS300U2B	300				
232	163			295						
240	169			252	TDC 449TS250U2B	250			IF07BTIH-F/2940rpm	271
242	170			255			NM6-104B/2940rpm	301	IF07CTIH-F/2940rpm	301
249	175			267						
256	180			279						
263	185			291	TDC 447TS300U2B	300				
270	190			302			/	/	/	/
277	195			314						
284	200	SCF200-150-250 (8x6") UL/FM testing in process	3550 (60Hz)	326						
291	205			338	TDC 447TS350U2B	350				
299	210			350						
306	215			362						
313	220			374						
320	225			386						
327	230			398						
334	235			410	TDC 449TS400U2B	400				
341	240			422						
345	243			429						
132	93	SCF200-150-250 (8x6") UL/FM testing in process	3550 (60Hz)	138	TDC 405TS150U2B	150	/	/	/	/
135	95			143						
142	100			155						
149	105			168						
156	110			180	TDC 444TS200U2B	200				
163	115			192			/	/	/	/
171	120			204						
178	125			216						
185	130			226	TDC 449TS250U2B	250				
192	135			239						
199	140	SCF200-150-310 (8x6") UL (168-247psi) FM (168-247psi)	3550 (60hz)	251			/	/	/	/
206	145			263						
213	150			275						
220	155			287	TDC 447TS300U2B	300				
223	157			292			/	/	/	/
227	160			284						
235	165			293						
242	170			303	TDC 447TS300U2B	300				
247	174			311			/	/	/	/
256	180			319						
263	185	SCF200-150-310 (8x6") Max.310mm ★ Only UL★	1800 (60Hz)	326						
270	190			332						
277	195			339	TDC 447TS350U2B	350				
280	197			342						
236	166			265	TDC 447T250U4B	250	NM6-128/1760rpm	457	DF12TIH-F/1760rpm	338
242	170			272						
249	175			281						
256	180			292	TDC 449T300U4B	300				
263	185			303						
270	190			314						
277	195			322						
285	200			331						
292	205			339					DF12DTIH-F/1760rpm	356
299	210			348						
306	215	SCF200-150-450x2 (8x6") UL/FM testing in process	1800 (60Hz)	356						
313	220			364	TDC 449T350U4B	350				
320	225			374						
327	230			382						
334	235			387					DF15TIH-F/1760rpm	491
343	241			395	TXC 586/7T400U4B	400				

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: *** is -4% speed range, # is +4% speed range.

Diesel engine unit price includes: pump, diesel engine, baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 1500GPM

RATED FLOW 341M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER																			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP																
108	76	SCF200-150-310 (8x6") UL(109-221psi) FM(123-222psi)	2980 (50hz)	137	TDC 404TS125U2B	125	NM6-102B/2980rpm	153	IF05ATIH-F/2940rpm	177																
114	80			141																						
122	86			146	TDC 405TS150U2B	150					NM6-110D/2900rpm	268	IF05BTIH-F/2940rpm	193												
128	90			153																						
135	95			165	TDC 444TS200U2B	200	IF07ATIH-F/2940rpm	240																		
142	100			176																						
149	105			186					TDC 449TS250U2B	250			IF07BTIH-F/2940rpm	271												
156	110			197																						
163	115			208	TDC 447TS300U2B	300	NM6-104B/2940rpm	301																		
171	120			218																						
178	125			229					IF07CTIH-F/2940rpm	301																
185	130			240																						
192	135			251	IF07CTIH-F/2940rpm	301																				
199	140			261																						
206	145			272																						
213	150			281																						
220	155			292																						
221	156			295																						
121	85			SCF200-150-250 (8x6") UL/FM testing in process	3550 (60hz)	138	TDC 404TS125U2B	125	/	/	/	/														
128	90					146	TDC 405TS150U2B	150					/	/	/	/										
135	95	155																								
142	100	165	TDC 444TS200U2B			200	/	/									/	/								
149	105	172																								
156	110	180																								
163	115	193																								
171	120	206	TDC 449TS250U2B			250													/	/	/	/				
178	125	221																								
185	130	235																								
192	135	248																								
199	140	261	TDC 447TS300U2B			300																	/	/	/	/
206	145	276																								
213	150	289	TDC 447TS300U2B			300																				
220	155	SCF200-150-310 (8x6") UL (158-269psi) FM (159-237psi)	3550 (60hz)	289	TDC 447TS300U2B	300			/	/	/	/														
227	160			299																						
235	165			310																						
236	166			311																						
242	170			316																						
249	175			323																						
256	180			331	TDC 447TS350U2B	350																				
263	185			338																						
267	188			342																						
324	228	SCF200-150-450×2 (8x6")	1800 (60Hz)	402	TXC 586/7T400U4B	400	NM6-128/1760rpm	457	DF15TIH-F/1760rpm	491																

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 2000GPM
 RATED FLOW 454M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER							
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP				
114	80	SCF250-200-500S (10x8") UL(118-186psi) & Waiting for FM certification	1760 (60hz)	209	TDC 445T200U4B	200	NM6-114/1760rpm	255	DF12TIH-F/1760rpm	338				
121	85			224										
128	90			237	TDC 447T250U4B	250	NM6-128/1760rpm	457						
135	95			252										
142	100			267										
149	105			280	TDC 449T300U4B	300					NM6-128/1760rpm	457		
156	110			295										
163	115			308										
171	120			323										
178	125			338	TDC 449T350U4B	350			NM6-128/1760rpm	457				
184	129			347										
152	107	SCF250-200-500S (10x8") UL(149-234psi) & Waiting for FM certification	2000	304	/	/	NM6-128/2020rpm	426					DF12DTIH-F/2000rpm	385
156	110			314										
163	115			331										
171	120			347										
178	125			363										
185	130			379										
192	135			395			/	/			DF15TIH-F/2000rpm	498		
199	140			411										
206	145			429										
213	150			445										
220	155			462										
227	160			478										
235	165			494										
240	169			508					DF18TIH-F/2000rpm	611				
107	75	SCF200-150-330 (8x6") UL/FM testing in process	2950 (50Hz)	173	TDC 444TS200U2B	200	NM6-110D/2900rpm	268			IF05ATIH-F/2940rpm	177		
115	81			186							IF05BTIH-F/2940rpm	193		
121	85			197							IF07ATIH-F/2940rpm	240		
128	90			210										
135	95			225	TDC 449TS250U2B	250					NM6-104B/2940rpm	301	IF07BTIH-F/2940rpm	271
142	100			239										
149	105			253										
156	110			267										
163	115			282	TDC 447TS300U2B	300	/	/	/	/				
171	120			296										
176	124			312										
185	130			328										
189	133			345	TDC 447TS350U2B	350								
199	140	SCF250-200-350 (10x8") UL (123-239psi) FM(124-239psi)	2980 (50Hz)	444	TDC 449TS400U2B	400					/	/	/	/
206	145			461	TXC586/7TS450U2B	450								
213	150			480										
220	155			498										
227	160			517	/	/								
235	165			536										
239	168			554										

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland
 Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump, diesel engine, baseplate, package

Motor pump unit price includes: pump, Motor (TDC: NEMA/ODP /IP23/ IE1)(TXC: NEMA/TEFC/IP55/IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 2500GPM
 RATED FLOW 568M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER					
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP		
107	75	SCF250-200-500S (10x8") UL(110-176psi) & Waiting for FM certification	1760 (60hz)	209	TDC 445T200U4B	200	NM6-114/1760rpm	255	DF12TIH-F/1760rpm	338		
114	80			224								
121	85			237								
128	90			252	TDC 447T250U4B	250	NM6-128/1760rpm	457				
135	95			267								
142	100			280								
149	105			295	TDC 449T300U4B	300						
156	110			308								
163	115			323								
171	120			338	TDC 449T350U4B	350					DF12DTIH-F/1760rpm	356
175	123			347								
144	101	SCF250-200-500S (10x8") UL(141-225psi) & Waiting for FM certification	2000	304	/	/			NM6-128/2020rpm	426	DF12DTIH-F/2000rpm	385
149	105			318								
156	110			334								
163	115			350								
171	120			367								
178	125			383			/	/	DF15TIH-F/2000rpm	498		
185	130			399								
192	135			415								
199	140			433								
206	145			449								
213	150			465								
220	155			481								
227	160			498								
232	163			508					DF18TIH-F/2000rpm	611		
115	81	SCF250-200-350 (10x8") UL (114-227psi) FM (115-227psi)	2980 (50Hz)	245	TDC 449TS250U2B	250	NM6-110D/2900rpm	268	IF07BTIH-F/2940rpm	271		
120	84			259								
125	88			273							TDC 447TS300U2B	300
130	91			286								
135	95			300								
140	98			314	TDC 447TS350U2B	350						
145	102			328								
150	106			341								
155	109			355	TDC 449TS400U2B	400	/	/	/	/		
160	113			369								
165	116			383								
170	120			396								
175	123			410								
180	127			424								
185	130			438	TXC586/7TS450U2B	450						
190	134			451								
195	137			465								
200	141			479	/	/						
205	144			493								
210	148			506								
215	151			520								
220	155			534								
225	158			548								
227	160			554								

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump, diesel engine, baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP/IP23/IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 3000GPM
 RATED FLOW 682M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
121	85	SCF300-250-500 (12x10") UL/FM testing in process	1480 (50Hz)	362	TDC 449T350U4B	350	/	/	DF15TIH-F/1470rpm	409
128	90			393						
135	95			425	TXC 586/7T400U4B	400			DF18TIH-F/1470rpm	488
142	100			456	TXC 586/7T450U4B	450				
149	105			488						
152	107			500						
176	124	SCF300-250-640 (12x10") UL(176-249psi) FM testing in process	1480 (50Hz)	529	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
178	125			535						
185	130			564						
192	135			592						
199	140			622					DF224TIH-F/1470rpm	753
206	145			650						
213	150			679						
220	155			708						
227	160			737						
235	165			765					/	/
242	170			795						
249	175			823						
119	84	SCF250-200-500 (10x8") UL(121-179psi) FM testing in process	1760 (60Hz)	282	TDC 449T300U4B	300	NM6-128/1760rpm	457	DF12TIH-F/1760rpm	338
121	85			285						
128	90			304						
135	95			323						
142	100			342	TDC 449T350U4B	350			DF12DTIH-F/1760rpm	356
149	105			360						
156	110			378						
163	115			397						
171	120			415	TXC 586/7T400U4B	400			DF15TIH-F/1760rpm	491
178	125			434						
179	126			438						
161	113	411	/	/			/	/		
163	115	419								
171	120	441								
178	125	462								
185	130	485			DF18TIH-F/2000rpm	612				
192	135	507								
199	140	528								
206	145	551								
213	150	572								
220	155	594			DF22TIH-F/2000rpm	756				
227	160	616								
235	165	638								
238	168	653								

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 3500GPM

RATED FLOW 795M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
117	82	SCF300-250-500 (12x10") UL/FM testing in process	1480 (50Hz)	362	TDC 449T350U4B	350	/	/	DF15TIH-F/1470rpm	409
121	85			374						
128	90			403	TXC 586/7T400U4B	400			DF18TIH-F/1470rpm	488
135	95			434						
142	100			464	TXC 586/7T450U4B	450			DF22TIH-F/1470rpm	651
149	105			494						
151	106			500						
168	118	SCF300-250-640 (12x10") UL(169-242psi) FM testing in process	1480 (50Hz)	529	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
171	120			540						
178	125			568						
185	130			598					DF224TIH-F/1470rpm	753
192	135			626						
199	140			654						
206	145			682					/	/
213	150			710						
220	155			738						
227	160			766						
235	165			795						
242	170			823						
136	95	SCF250-200-500 (10x8") UL(136-170psi) FM testing in process	1760 (60Hz)	346	TDC 449T350U4B	350	NM6-128/1760rpm	457	DF12DTIH-F/1760rpm	356
142	100			364					DF15TIH-F/1760rpm	491
149	105			383						
156	110			401	TXC 586/7T400U4B	400				
163	115			423						
170	120			445						
152	107	SCF250-200-500 (10x8") UL(154-229psi) FM testing in process	2000	411	/	/	/	/	DF15TIH-F/2000rpm	498
156	110			423						
163	115			446						
171	120			468					DF18TIH-F/2000rpm	612
178	125			490						
185	130			513						
192	135			535					DF22TIH-F/2000rpm	756
199	140			557						
206	145			580						
213	150			602						
220	155			624						
227	160			647						
229	161			653						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 4000GPM

RATED FLOW 909M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER					
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP		
115	81	SCF300-250-500 (12x10") UL/FM testing in process	1480 (50Hz)	362	TDC 449T350U4B	350	/	/	DF15TIH-F/1470rpm	409		
121	85			387								
128	90			418	TXC 586/7T400U4B	400			DF18TIH-F/1470rpm	488		
135	95			450								
142	100			481	TXC 586/7T450U4B	450			DF22TIH-F/1470rpm	651		
146	103			500								
162	114	SCF300-250-640 (12x10") UL(162-233psi) FM testing in process	1480 (50Hz)	529	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651		
163	115			535								
171	120			564								
178	125			594								
185	130			623					DF22TIH-F/1470rpm	753		
192	135			653								
199	140			682								
206	145			712								
213	150			741					/	/		
220	155			771								
227	160			799								
233	164			823								
122	86	SCF300-250-500 (12x10") UL/FM testing in process	1800 (60Hz)	418	TXC 586/7T400U4B	400	/	/	NM6-128/1760rpm	457		
128	90			445								
135	95			480	TXC 586/7T450U4B	450			DF15TIH-F/1760rpm	491		
142	100			513								
149	105			548	/	/			DF18TIH-F/1760rpm	585		
156	110			582								
163	115			616								
171	120			650					DF22TIH-F/1760rpm	769		
178	125			685								
185	130			718								
192	135			753								
199	140			787					DF22TIH-F/1760rpm	874		
206	145			821								
213	150			855								
220	155			890								
223	157			904					/	/	/	/

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump, diesel engine, baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 4500GPM

RATED FLOW 1022M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER					
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP		
110	77	SCF300-250-500 (12x10") UL/FM testing in process	1480 (50Hz)	362	TDC 449T350U4B	350	/	/	DF15TIH-F/1470rpm	409		
114	80			379								
121	85			407	TXC 586/7T400U4B	400			DF18TIH-F/1470rpm	488		
128	90			437								
135	95			465	TXC 586/7T450U4B	450			DF22TIH-F/1470rpm	651		
142	100			494								
144	101			500								
145	102	SCF350-250-640 (14x10") UL(136-216psi) FM testing in process	1480 (50Hz)	646	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651		
149	105			686					DF224TIH-F/1470rpm	753		
156	110			730					/	/	/	
163	115			773								
171	120			817								
178	125			860								
185	130			905								
192	135			947								
199	140			992								
206	145			1034								
213	150			1079								
215	151			1088								
118	83	SCF300-250-500 (12x10") UL/FM testing in process	1800 (60Hz)	418	TXC 586/7T400U4B	400	/	/	NM6-128/1760rpm	457		
121	85			431								
128	90			465	TXC 586/7T450U4B	450			DF15TIH-F/1760rpm	491		
135	95			498								
142	100			532	No suitable UL motor	/			/	/	DF18TIH-F/1760rpm	585
149	105			567								
156	110			600							DF22TIH-F/1760rpm	769
163	115			634								
171	120			667								
178	125			701								
185	130			734								
192	135			768								
199	140			803							DF224TIH-F/1760rpm	874
206	145			836								
213	150			870							/	/
221	155			904								

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 5000GPM
RATED FLOW 1136M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER						
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP			
131	92	SCF350-250-640 (14x10") UL(134-214psi) FM testing in process	1480 (50Hz)	599	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651			
135	95			624					DF224TIH-F/1470rpm	753			
142	100			666									
149	105			709									
156	110			750									
163	115			792					/	/	/	/	/
171	120			835									
178	125			876									
185	130			918									
192	135			961									
199	140			1002									
206	145			1045									
213	150			1088									
130	92	SCF300-250-500 (12x10") UL/FM testing in process	1800 (60Hz)	495	TXC 586/7T450U4B	450	/	/	DF18TIH-F/1760rpm	585			
135	95			501	No suitable UL motor	/			/	/	DF22TIH-F/1760rpm	769	
142	100			537									
149	105			572									
156	110			607							DF224TIH-F/1760rpm	874	
163	115			642									
171	120			678									
178	125			713									
185	130			748									
192	135			784									
199	140			819									
206	145			854									
213	150			888									
216	152			904							/	/	

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 6000GPM
RATED FLOW 1363M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
127	87	SCF350-250-640 (14x10") UL(127-209psi) FM testing in process	1480 (50Hz)	599	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
128	90			624						
135	95			665						
142	100			706					DF224TIH-F/1470rpm	753
149	105			748						
156	110			789					/	/
163	115			831						
171	120			872						
178	125			913						
185	130			954						
192	135			996						
199	140			1037						
206	145			1079						
208	146			1088						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet presure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
 RATED FLOW 6500GPM
 RATED FLOW 1476M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
116	82	SCF400-350-640 (16x14") UL(116-186psi) FM(116-185psi)	1480 (50Hz)	626	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
121	85			691					DF224TIH-F/1470rpm	753
128	90			738						
135	95			784					/	/
142	100			831						
149	105			878						
156	110			925						
163	115			970						
171	120			1017						
178	125			1064						
186	130			1083						
203	143			1088						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE
RATED FLOW 7000GPM
RATED FLOW 1590M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
110	77	SCF400-350-640 (16x14") UL(113-182psi) FM(112-181psi)	1480 (50Hz)	626	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
121	85			691					DF224TIH-F/1470rpm	753
128	90			738						
135	95			784					/	/
142	100			831						
149	105			878						
156	110			925						
163	115			970						
171	120			1017						
178	125			1064						
180	127			1083						
199	140			1088						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,package

DRIVER SELECTION CHART FOR FIRE PUMPS-SPLIT CASE

RATED FLOW 7500GPM

RATED FLOW 1703M3/H

HEAD		PUMP MODEL	SPEED	MAX SHAFT POWER	MOTOR DRIVER		DIESEL ENGINE DRIVER			
PSI	METER		RPM	HP	MODEL (TECHTOP&UL)	HP	MODEL (NM&UL)	HP	MODEL(DE MAAS&FM)	HP
108	76	SCF400-350-640 (16x14") only UL(109-179psi)	1480 (50Hz)	626	No suitable UL motor	/	/	/	DF22TIH-F/1470rpm	651
114	80			663					DF224TIH-F/1470rpm	753
121	85			712						
128	90			758					/	/
135	95			807						
142	100			855						
149	105			902						
156	110			950						
163	115			997						
171	120			1045						
176	124			1083						
193	136			1088						

Casing: Ductile cast iron /Impeller: SS304 / Shaft:40CrNi2Mo (AISI4340)/Shaft Sleeve:SS304/Seal ring: Bronze/Seal: Packing Gland

Pump C/W:Automatic air relieve valve/ inlet & outlet pressure gauge

Note: "*" is -4% speed range, "#" is +4% speed range.

Diesel engine unit price includes: pump, diesel engine, baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 100GPM
RATED FLOW 22.7M3/H

HEAD			Impeller	PUMP MODEL UL ONLY	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER					
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW
75	173	53	Min.190mm	ESF40/20 (2.5"x1.5") UL(72-109psi)	2980 (50Hz)	13	9.7	TDC 254T15U2B	15	11	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60
80	185	56				14	10.4									
85	196	60				15	11.2									
90	208	63				16	11.9	TDC 256T20U2B	20	15						
95	219	67				17	12.7									
100	231	70				18	13.4									
105	242	74				19	14.2									
108	249	76	Max.225mm			20	14.9									
110	254	77	Min.225mm			ESF40/26 (2.5"x1.5") UL(100-138psi)	2980 (50Hz)	24	17.9	TDC 284TS25U2B						
115	265	81		25	18.6											
120	277	84		26	19.4											
125	288	88		28	20.9			TDC 286TS30U2B	30	22						
130	300	91		30	22.4											
136	311	95	Max.264mm	32	23.8											
103	238	72	Min.190mm	ESF40/20 (2.5"x1.5") UL(105-157psi)	3550 (60Hz)	20	14.9	TDC 256T20U2B	20	15	/	/	/	/	/	/
105	242	74				21	15.6									
110	254	77				21	15.6									
115	265	81				22	16.4	TDC 284TS25U2B	25	18.5						
120	277	84				23	17.1									
125	288	88				24	17.9									
130	300	91				25	18.6									
135	311	95				26	19.4									
140	323	98				27	20.1									
145	335	102				28	20.9									
150	346	106				29	21.6	TDC 286TS30U2B	30	22						
154	355	108	Max.225mm			30	22.4									

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 200GPM
RATED FLOW 45.4M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER					
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW
72	166	51	Min.195mm	ESF50/20 (2.5"x2") UL(72-99psi) FM(72-100psi)	2980 (50Hz)	19	14.2	TDC 256T20U2B	20	15	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60
75	173	53				20	14.9									
80	185	56				23	17.1	TDC 284TS25U2B	25	18.5						
85	196	60				27	20.1									
90	208	63				29	21.6	TDC 286TS30U2B	30	22						
95	219	67				32	23.8									
99	228	70	Max.225mm			35	26.1	TDC 286TS40U2B	40	30						
105	242	74	Min.230mm			ESF50/26 (2.5"x2") UL(105-140psi) FM(103-138psi)	2980 (50Hz)	30	22.4	TDC 286TS30U2B						
110	254	77		32	23.8											
115	265	81		34	25.3			TDC 286TS40U2B	40	30						
120	277	84		36	26.8											
125	288	88		38	28.3											
130	300	91		40	29.8											
135	311	95		42	31.3											
140	323	98	Max.264mm	45	33.5											
102	235	72	Min.195mm	ESF50/20 (2.5"x2") UL(102-142psi) FM(104-143psi)	3550 (60Hz)	32	23.8	TDC 286TS30U2B	30	22	/	/	/	/	/	/
105	242	74				34	25.3	TDC 286TS40U2B	40	30						
110	254	77				37	27.6									
115	265	81				40	29.8									
120	277	84				43	32.0									
125	288	88				46	34.3	TDC 324TS50U2B	50	37						
130	300	91				49	36.5									
135	311	95				52	38.7									
140	323	98				55	41.0									
142	328	100	Max.225mm			56	41.7									

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet presure gauge .

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 250GPM
RATED FLOW 56.8M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER								
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW			
69	159	49	Min.195mm	ESF50/20 (2.5"x2") UL(69-99psi) FM(70-100psi)	2980 (50Hz)	19	14.2	TDC 256T20U2B	20	15	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60			
70	161	49				20	14.9												
75	173	53				22	16.4												
80	185	56				25	18.6	TDC 284TS25U2B	25	18.5									
85	196	60				27	20.1												
90	208	63				29	21.6												
95	219	67				32	23.8	TDC 286TS30U2B	30	22									
99	228	70	Max.225mm			35	26.1	TDC 286TS40U2B	40	30									
100	231	70	Min.230mm	ESF50/26 (2.5"x2") UL(99-136psi) FM(100-137psi)	2980 (50Hz)	30	22.4	TDC 286TS30U2B	30	22	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60			
105	242	74				32	23.8												
110	254	77				34	25.3										TDC 286TS40U2B	40	30
115	265	81				36	26.8												
120	277	84				38	28.3												
125	288	88				40	29.8												
130	300	91				42	31.3												
135	311	95				44	32.8												
136	314	96	Max.264mm			45	33.5												
140	323	98	Min.245mm	ESF65/26 (3"x2.5") UL(119-147psi) FM(115-143psi)	2980 (50Hz)	76	56.6	TDC 365TS75U2B	75	55	NM4-105/2980rpm	86	64	IF05AH-F/2940rpm	80	60			
145	335	102				81	60.3												
147	339	103	Max.264mm			82	61.1												
101	233	71	Min.195mm	ESF50/20 (2.5"x2") UL(101-141psi) FM(102-142psi)	3550 (60Hz)	32	23.8	TDC 286TS30U2B	30	22	/	/	/	/	/	/			
105	242	74				34	25.3										TDC 286TS40U2B	40	30
110	254	77				37	27.6												
115	265	81				40	29.8												
120	277	84				43	32.0												
125	288	88				46	34.3	TDC 324TS50U2B	50	37									
130	300	91				49	36.5												
135	311	95				52	38.7												
140	323	98				55	41.0												
141	325	99	Max.225mm			56	41.7												
145	335	102	Min.195mm	ESF65/20 (3"x2.5") UL(113-152psi) FM(113-152psi)	3550 (60Hz)	88	65.6	TDC 365TS100U2B	100	75	/	/	/	/	/	/			
150	346	106				93	69.3												
152	351	107	Max.225mm			95	70.8												

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet presure gauge .

Diese engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,pacakge

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 300GPM
RATED FLOW 68. 2M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER								
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW			
86	198	60	Min.210mm	ESF65/20 (3"x2.5") UL(86-107psi) FM(86-107psi)	2980 (50Hz)	39	29.1	TDC 286TS40U2B	40	30	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60			
90	208	63				42	31.3												
95	219	67				46	34.3	TDC 324TS50U2B	50	37							NM4-105/2950rpm	86	64
100	231	70				49	36.5												
105	242	74				51	38.0												
107	247	75	Max.225mm			53	39.5												
119	275	84	Min.245mm	ESF65/26 (3"x2.5") UL(119-147psi) FM(115-143psi)	2980 (50Hz)	55	41.0	TDC 324TS50U2B	50	37	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60			
120	277	84				56	41.7	TDC 326TS60U2B	60	45									
125	288	88				61	45.4												
130	300	91				66	49.2	TDC 365TS75U2B	75	55									
135	311	95				71	52.9												
140	323	98				76	56.6												
145	335	102				81	60.3												
147	339	103	Max.264mm			82	61.1												
112	258	79	Min.195mm	ESF65/20 (3"x2.5") UL(112-152psi) FM(112-152psi)	3550 (60Hz)	59	44.0	TDC 326TS60U2B	60	45	/	/	/	/	/	/			
115	265	81				62	46.2												
120	277	84				66	49.2												
125	288	88				71	52.9	TDC 365TS75U2B	75	55									
130	300	91				75	55.9												
135	311	95				80	59.6												
140	323	98				84	62.6	TDC 365TS100U2B	100	75									
145	335	102				88	65.6												
150	346	106				93	69.3												
152	351	107	Max.225mm			95	70.8												

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 400GPM
RATED FLOW 90.9M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER								
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW			
83	191	58	Min.210m	ESF65/20 (3"x2.5") UL(83-104psi) FM(83-104psi)	2980 (50Hz)	39	29.1	TDC 286TS40U2B	40	30	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60			
85	196	60				40	29.8	TDC 324TS50U2B	50	37							NM4-105/2950rpm	86	64
90	208	63				44	32.8												
95	219	67				47	35.0												
100	231	70				50	37.3												
104	240	73	Min.225m m			53	39.5												
119	275	84	Min.245m	ESF65/26 (3"x2.5") UL(119-141psi) FM(113-141psi)	2980 (50Hz)	55	41.0	TDC 324TS50U2B	50	37	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60			
120	277	84				56	41.7	TDC 326TS60U2B	60	45									
125	288	88				62	46.2	TDC 326TS60U2B	60	45									
130	300	91				68	50.7	TDC 326TS60U2B	60	45									
135	311	95				75	55.9	TDC 365TS75U2B	75	55									
140	323	98				81	60.3	TDC 365TS75U2B	75	55									
141	325	99	Max.264m			82	61.1	TDC 365TS75U2B	75	55									
108	249	76	Min.195m			ESF65/20 (3"x2.5") UL(108-150psi) FM(108-150psi)	3550 (60Hz)	59	44.0	TDC 326TS60U2B							60	45	/
110	254	77		61	45.4			TDC 326TS60U2B	60	45									
115	265	81		65	48.4			TDC 326TS60U2B	60	45									
120	277	84		69	51.4			TDC 365TS75U2B	75	55									
125	288	88		74	55.1			TDC 365TS75U2B	75	55									
130	300	91		78	58.1			TDC 365TS75U2B	75	55									
135	311	95		83	61.8			TDC 365TS75U2B	75	55									
140	323	98		87	64.8			TDC 365TS75U2B	75	55									
145	335	102		91	67.8			TDC 365TS100U2B	100	75									
150	346	106	Max.225m	95	70.8			TDC 365TS100U2B	100	75									

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate,package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 450GPM
RATED FLOW 102.2M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER														
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW									
80	185	56	Min.210m	ESF65/20 (3"x2.5") UL(80-102psi) FM(80-102psi)	2980 (50Hz)	39	29.1	TDC 286TS40U2B	40	30	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60									
85	196	60				42	31.3																		
90	208	63				45	33.5	TDC 324TS50U2B	50	37															
95	219	67				49	36.5																		
100	231	70				52	38.7																		
102	235	72	Max.225m m			53	39.5				NM4-105/2950rpm	86	64												
114	263	80	Min.245m			ESF65/26 (3"x2.5") UL(114-138psi) FM(111-138psi)	2980 (50Hz)	55	41.0	TDC 324TS50U2B	50	37	NM4-105/2950rpm				86	64	IF05AH-F/2940rpm	80	60				
115	265	81		56	41.7																				
120	277	84		60	44.7			TDC 326TS60U2B	60	45															
125	288	88		65	48.4																				
130	300	91		71	52.9			TDC 365TS75U2B	75	55															
135	311	95		76	56.6																				
138	318	97	Max.264m	82	61.1																				
105	242	74	Min.195m	ESF65/20 (3"x2.5") UL(105-148psi) FM(105-148psi)	3550 (60Hz)	59	44.0	TDC 326TS60U2B	60	45	/	/	/	/	/	/									
110	254	77				62	46.2																		
115	265	81				66	49.2																		
120	277	84				70	52.2	TDC 365TS75U2B	75	55															
125	288	88				74	55.1																		
130	300	91				78	58.1																		
135	311	95				83	61.8																		
140	323	98				87	64.8																TDC 365TS100U2B	100	75
145	335	102				91	67.8																		
148	341	104	Max.225m			95	70.8																		

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 500GPM
RATED FLOW 113.5M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER								
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW			
77	178	54	Min.210mm	ESF65/20 (3"x2.5") UL(77-99psi) FM(78-99psi)	2980 (50Hz)	39	29.1	TDC 286TS40U2B	40	30	NM4-90/2950rpm	51	38	IF05AH-F/2940rpm	80	60			
80	185	56				41	30.5	TDC 324TS50U2B	50	37							NM4-105/2950rpm	86	64
85	196	60				44	32.8												
90	208	63				47	35.0												
95	219	67				51	38.0												
99	228	70	Max.225mm			53	39.5												
116	268	82	Min.245mm	ESF80/26 (4"x3") UL(116-138psi) FM(112-137psi)	2980 (50Hz)	78	58.1	TDC 365TS75U2B	75	55	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60			
120	277	84				84	62.6	TDC 365TS100U2B	100	75		NM4-108/2950rpm	93	69	IF05ATH-F/2940rpm	130	97		
125	288	88	Max.264mm			91	67.8												
130	300	91	Min.245mm	ESF65/26 (3"x2.5") UL(111-135psi) FM(110-135psi)	2980 (50Hz)	77	57.4	TDC 365TS75U2B	75	55	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60			
135	311	95	Max.264mm			82	61.1							IF05ATH-F/2940rpm	130	97			
138	318	97	Min.245mm	ESF80/26 (4"x3") UL(116-138psi) FM(112-137psi)	2980 (50Hz)	111	82.7	TDC 365TS100U2B	100	75	NM6-102/2950rpm	126	94	IF05ATH-F/2940rpm	130	97			
101	233	71	Min.195mm	ESF65/20 (3"x2.5") UL(101-145psi) FM(101-146psi)	3550 (60Hz)	59	44.0	TDC 326TS60U2B	60	45	/	/	/	/	/	/			
105	242	74				62	46.2												
110	254	77				66	49.2												
115	265	81				70	52.2	TDC 365TS75U2B	75	55									
120	277	84				74	55.1												
125	288	88				78	58.1												
130	300	91				83	61.8												
135	311	95				87	64.8	TDC 365TS100U2B	100	75									
140	323	98				91	67.8												
145	335	102	Max.225mm			95	70.8												

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

DRIVER SELECTION CHART FOR FIRE PUMPS-END SUCTION

RATED FLOW 750GPM
RATED FLOW 170. 4M3/H

HEAD			Impeller	PUMP MODEL	SPEED	MAX SHAFT POWER		MOTOR DRIVER			DIESEL ENGINE DRIVER											
PSI	FEET	METER	Dia.mm		RPM	HP	KW	MODEL (TECHTOP&UL)	HP	KW	MODEL (CNP NM&UL)	HP	KW	MODEL (DE MAAS&FM)	HP	KW						
87	201	61	Min.210mm	ESF80/20 (4"x3") UL(87-98psi) FM(86-96psi)	2980 (50Hz)	67	49.9	TDC 365TS75U2B	75	55	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60						
90	208	63				71	52.9															
95	219	67				77	57.4															
98	226	69	Max.225mm			81	60.3															
105	242	74	Min.245mm	ESF80/26 (4"x3") UL(105-132psi) FM(104-131psi)	2980 (50Hz)	78	58.1	TDC 365TS75U2B	75	55	NM4-105/2950rpm	86	64	IF05AH-F/2940rpm	80	60						
110	254	77				84	62.6															
115	265	81				90	67.1	TDC 365TS100U2B	100	75	NM4-108/2950rpm	93	69	IF05ATH-F/2940rpm	130	97						
120	277	84				96	71.5				NM6-102/2950rpm	126	94									
125	288	88				102	76.0															
130	300	91				108	80.5															
132	305	93	Max.264mm			111	82.7															
127	293	89	Min.210mm	ESF80/20 (4"x3") UL(127-142psi) FM(125-140psi)	3550 (60Hz)	111	82.7	TDC 365TS100U2B	100	75	/	/	/	/	/	/						
130	300	91				116	86.4	TDC 404TS125U2B	125	92.5												
135	311	95				123	91.6															
140	323	98				131	97.6															
142	328	100	Max.225mm			134	99.8															

Casing: Ductile cast iron /Impeller: Bronze/ Shaft:S.S420/Seal ring: Brass/Seal: Packing Gland/SKF Bearing

Pump C/W: Include inlet & outlet pressure gauge .

Diesel engine unit price includes: pump , diesel engine , baseplate, package

Motor pump unit price includes: pump, Motor (NEMA/ODP /IP23/ IE1), baseplate, package

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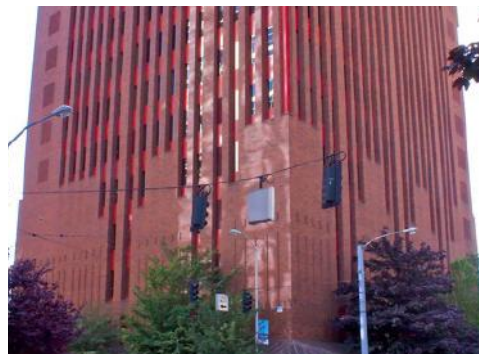
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