

External Fire Fighting System (Fi-Fi System)

External Fire Fighting System is used for, Fire Fighting Vessels, Escort Tugs, fisheries supervision vessel, Patrpl vessels etc. We provides external fire fighting systems(FiFi class I/II/II systems) for all kinds of vessels.







The Global Leader in Maritime Communication & Safety System



FEATURE

- Forefront manufacturer of External Firefighting system in JASON since 1974.
- 100% full in-house technology, R&D from JASON Norway.
- 100% full Europe products with good quantity at competitive prices.
- FiFi ¼ to FIFI III, Deluge systems, Foam generating systems, Telescopic elevating masts completely in accordance with class notations.
- State of the art JASON monitors has undivided waterway (single flow path) with electro & hydraulic remote control where could react to different fire condition which is good advantage to the owners/ end-users in term of durability & reliability.
- A easy serviceable design Maintenance friendly all major components are easy accessible: Low lifecycle cost









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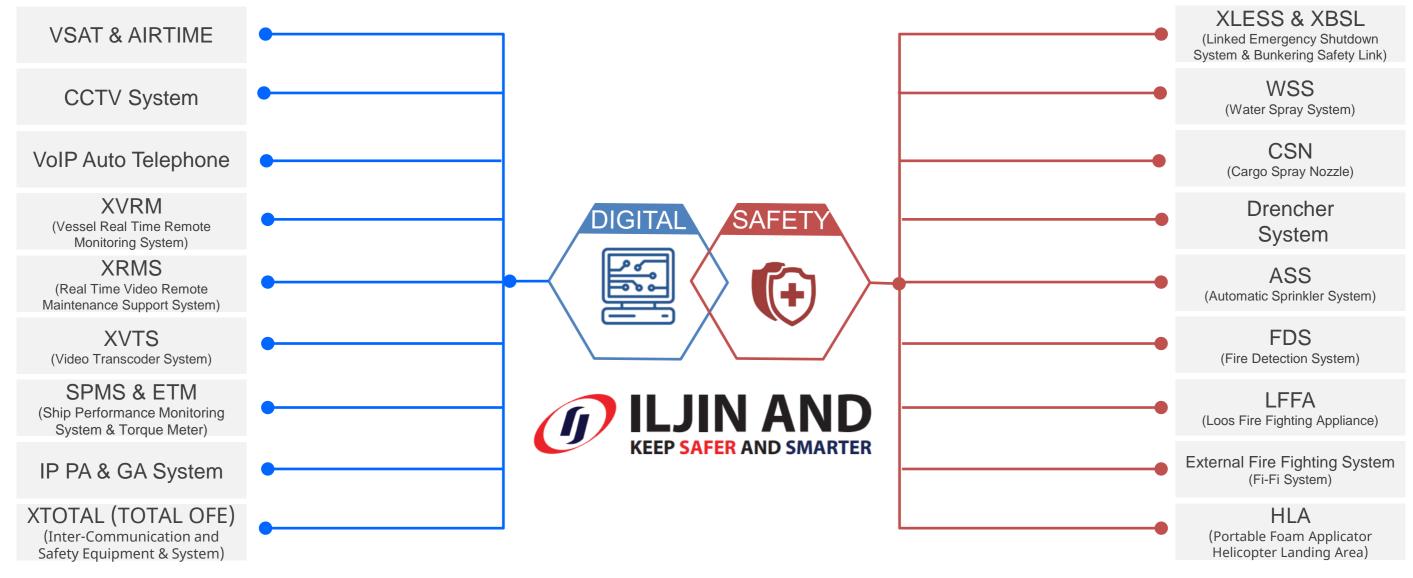




ILJIN AND'S TOTAL SYSTEM & SOLUTION



"Total ICT Integration and Safety Solution Provider"

















Design and supply of marine External Fire Fighting Systems

Fi-Fi CLASS REQUIREMENT

Fire fighter 1 (or 2 or 3) are class notations granted to vessels built and equipped in compliance with the relevant class requirements. These requirements are based upon experience and an appraisal of future vessels, size of object to be protected and available fire fighting equipment.

The following matters are covered by the classification:

- · The vessel's fire fighting capability.
- The vessel's stability and its ability to keep position when the fire fighting monitors are in operation.
- · The vessel's ability for self protection.

Class Notation	FiFi1		FiFi2			FiFi3	
No. of Monitors	2	2 (DNV)	3	4	3	4	
Monitor capacity (m3/h)	1200	3600	2400	1800	3200	2400/ 2500	
No. of Pumps	1-2	2	2	-4	2	2-4	
Total pump capacity (m3/h)	2400	7200	72	00	9600	9600/ 10000	
Throw length (m)	120	180 (from bow)	15	50	180 (From bow)	150	
Throw height (m)	45	110 at 70m	7	0	110 at 70m	70	







Fi-Fi l

The class notation FiFi I means that the vessel is to be equipped with minimum 2 fire monitors, able to throw water to a minimum distance of 120 meters from the vessel and to a height of minimum 45 meters.

The monitors are to be remote controlled from the wheelhouse.

Since the fire pumps and related equipment are located in the engine room these are also normally remote controlled, FiFi I Systems are normally installed on Escort tugs, Fire fighting vessels etc.







Fi-Fi II

The class notation FiFi II means that the vessel is to be equipped with minimum 2 fire monitors, (DNV rules) able to throw water to a minimum distance of 180 meters from the vessel and to a height of minimum 110 meters, or if other classification for the vessel (i.e. LRS, ABS, R.I.N.A, BV, GL etc), the vessel is to be equipped with 3 or 4 fire monitors, able to throw water to a minimum distance of 150 meters from the vessel and to a height of minimum 70meters, Whatever configuration is chosen for the FIFI II vessel the total water capacity shall be not less than 7200 m3/h, The monitors are to be remote controlled from the wheelhouse, Since the fire pumps and related equipment are located in the engine room these are also normally remote controlled. FiFi II Systems are normally installed on offshore vessels like Anchor-handling tug / supply vessels, or other specialised vessels.







Fi-Fi III

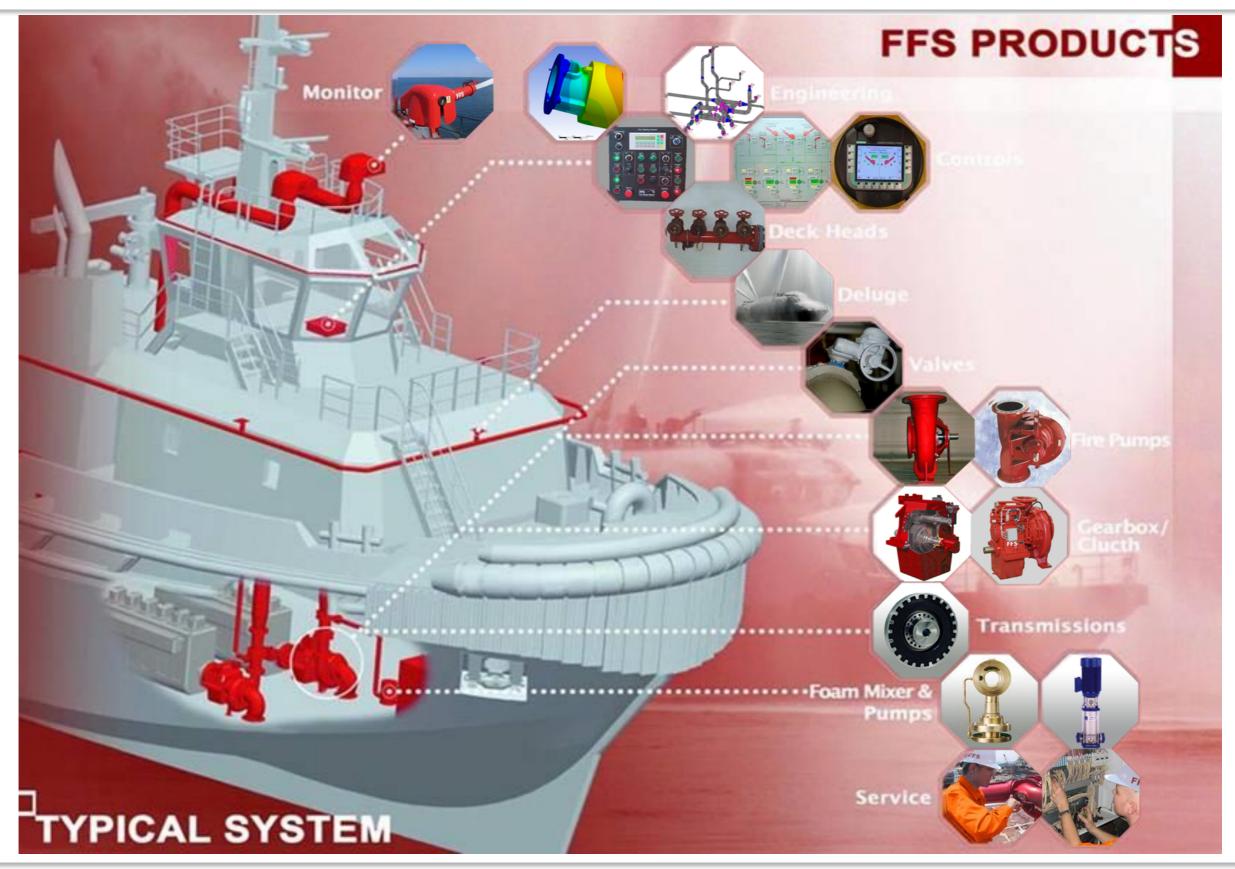
The class notation FiFi III means that the vessel is to be equipped with minimum 3 fire monitors, (DNV rules) able to throw water to a minimum distance of 180 meters from the vessel and to a height of minimum 110 meters, or if other classification for the vessel (i.e. LRS, ABS, R.I.N.A, BV, GL etc), the vessel is to be equipped with 4 fire monitors, able to throw water to a minimum distance of 150 meters from the vessel and to a height of minimum 70meters, Whatever configuration is chosen for the FIFI III vessel the total water capacity shall be not less than 9600 m3/h, The monitors are to be remote controlled from the wheelhouse, Since the fire pumps and related equipment are located in the engine room these are also normally remote controlled. FiFi III Systems are not so common, but are normally installed on larger offshore vessels, or other specialised vessels.





SCOPE OF SUPPLY



















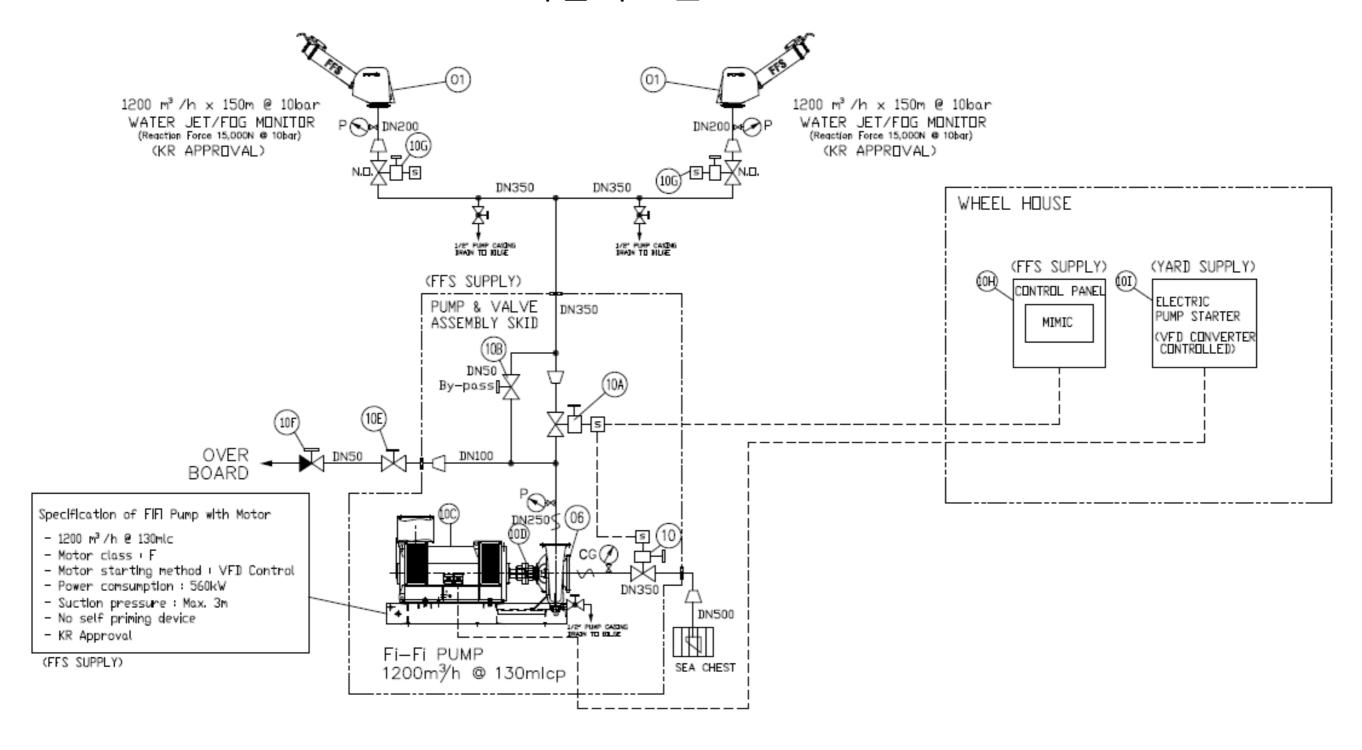




Schematic diagram (1)



< 어업지도선 >

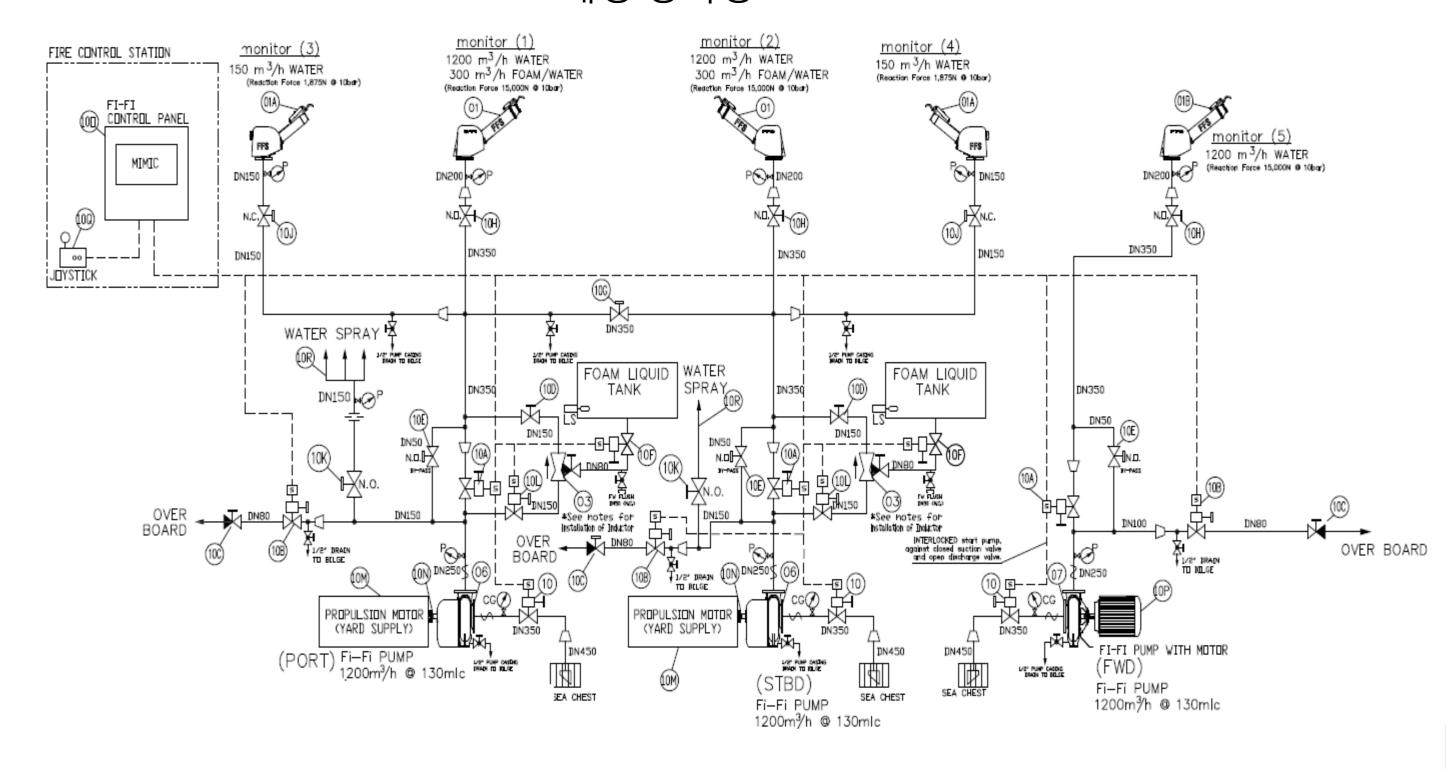








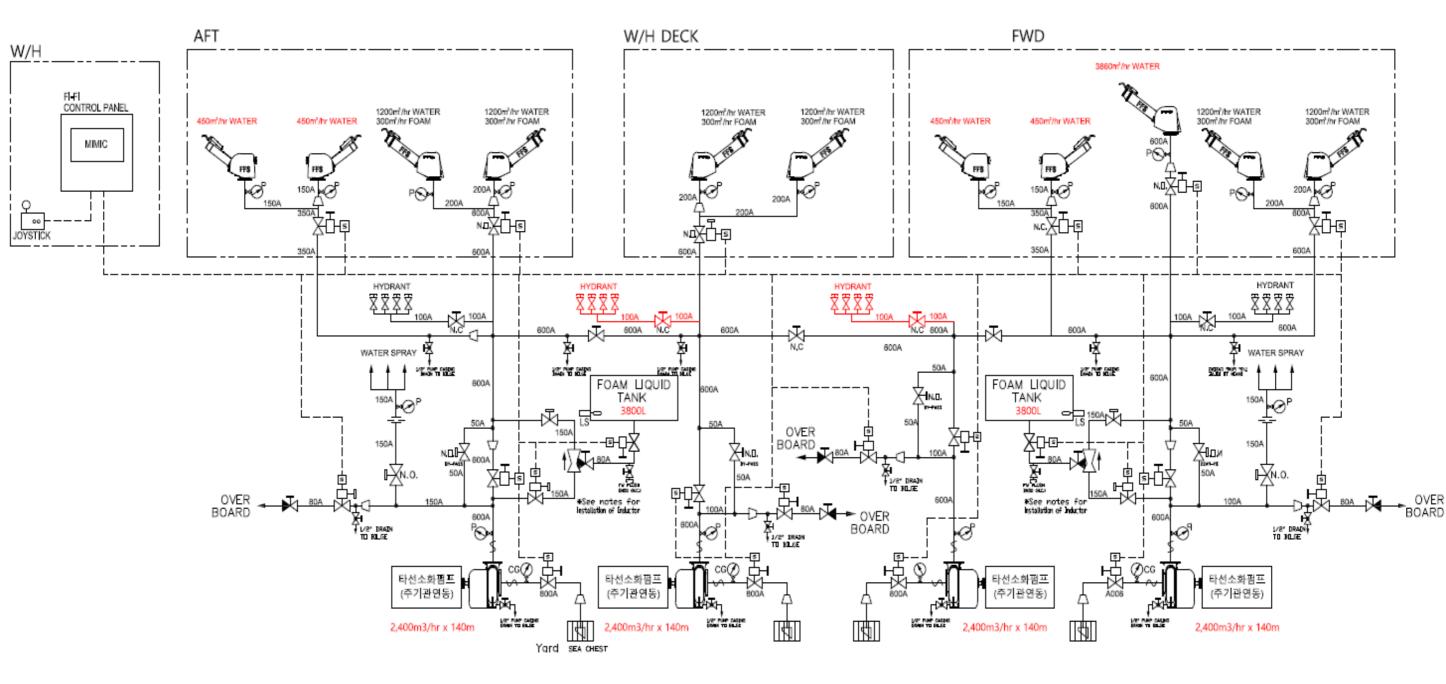
< 해경 경비정 >







< FDNY FIREBOAT>



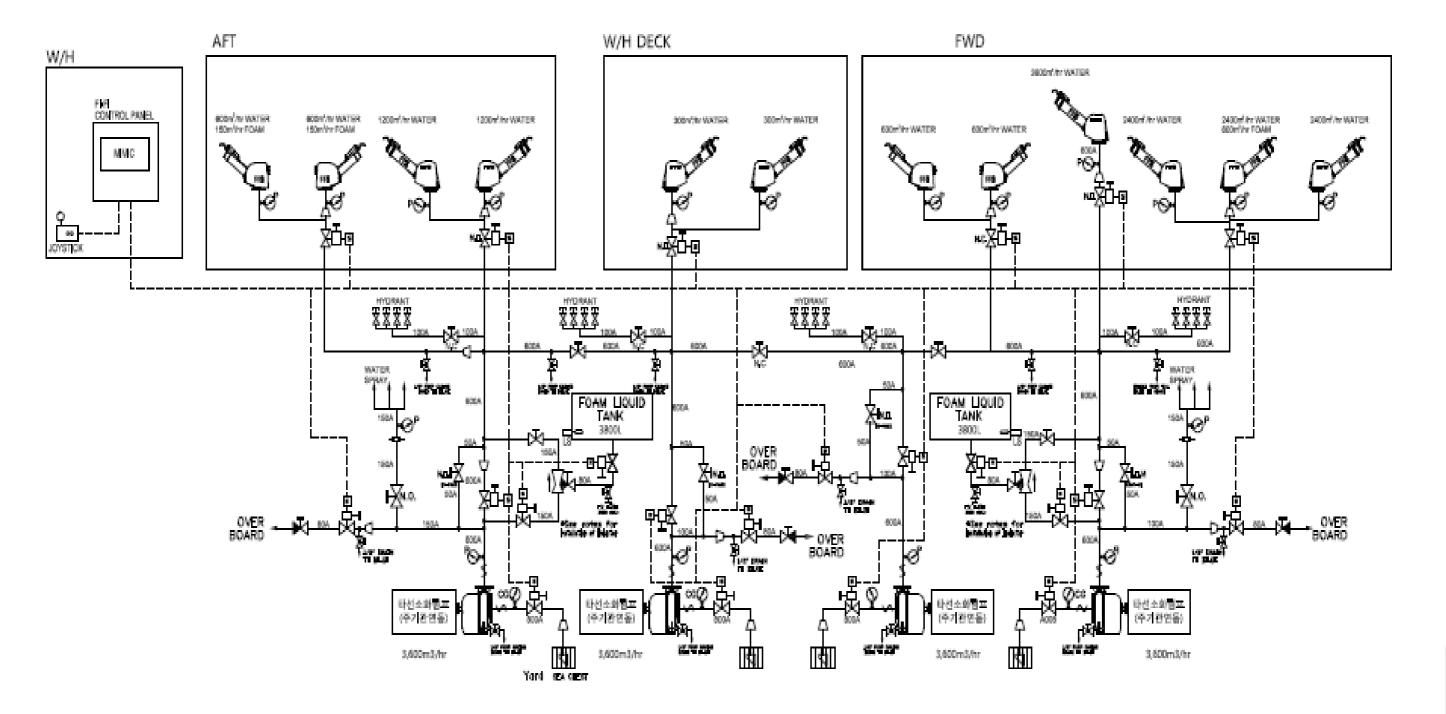








< SCDF FIREBOAT>









Performance Deviations for Fi-Fi System								
No.	DESCRIPTION	SCDF FIREBOAT	FDNY FIREBOAT	Remark				
A	Main machinery	Main engine : 4 x 1,840kW at 1,800rpm	Main engine : 4 x 1,343kW					
В	FIRE PUMP							
-1	Capacity	4 X 3600m ³ /hr Total Pump Capacity : 14,000m ³ /hr	4 X 2400m ³ /hr Total Pump Capacity: 9,600m ³ /hr					
С	FIRE MONITOR							
-1	1 X 3,600m ³ /hr 2 X 2,400m ³ /hr 1 X 2,400m ³ /hr, 600m ³ /h (Foam) 2 X 1,200m ³ /hr 2 X 600m ³ /hr, 150m ³ /h (Foam) 2 X 600m ³ /hr 2 X 300m ³ /hr Total Q'ty: 12ea Total Monitor Capacity: 16,200m ³ /hr		1 X 3,860m ³ /hr 6 X 1,200m3 /hr, 300m ³ /hr (Foam) 4 X 450m ³ /hr Total Q'ty: 11ea Total Monitor Capacity: 12,860m ³ /hr					





Comparison table (2)



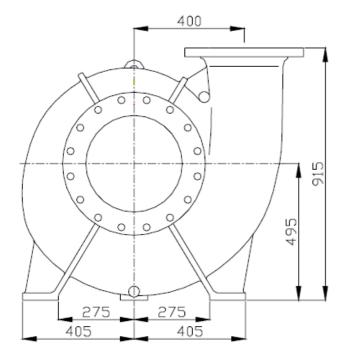
업체 비교표							
구분		(K)사	(F)사	FFS	비고		
펌프	성능	■ Capacity : 1200㎡/h X 150m (수두) ■ Speed : 1,784rpm ■ NPSHr : 6.2m ■ Power consumption : 622kw	■ Capacity : 1200㎡/h X 150m (수두) ■ Speed : 1,784rpm ■ NPSHr : - ■ Power consumption : 630kw	■ Capacity : 1200㎡/h X 130m (수두) ■ Speed : 1,750rpm ■ NPSHr : 6.3m ■ Power consumption : 539kw			
	제원	■ 1080mm X 1110mm X 596mm ■ 무게 : Approx. 650kg	■ 865mm X 1050mmX 580mm ■ 무게 : Approx. 450kg	■ 810mm X 915mm X 580mm ■ 무게 : Approx. 420kg			
	재질	 Casing: Ni-Al-Bronze Impeller: Ni-Al-Bronze Shaft: Stainless steel AlSI329 Seal: Mechanical Seal 	 Casing : Ni-Al-Bronze Impeller : Ni-Al-Bronze Shaft : AISI329 Seal : Mechanical Seal 	 Casing: Ni-Al-Bronze Impeller: Duplex stainless steel Shaft: Duplex stainless steel Seal: Mechanical Seal 			
	제조범위	▪ 별도 구매	■ 별도 구매	• FFS 자체 제작			
모니터	성능	 Capacity: 1200m³/Hr(water) 300m³/Hr (foam) Throw length: Approx. 150m @13bar (water) Approx. 60m @15~17bar (foam) Rotation: +170° ~ -170° Elevation: -30° ~ +75° 	Approx. 50m @13bar (Foam)	 Capacity: 1200m³/Hr(water) 300m³/Hr (foam) Throw length: Approx. 150m @10bar (water) Approx. 75m @10bar (Foam) Rotation: 300° (Option 360°) Elevation: -20° ~ +85° 			
	제원	■ 2474mm X 1370mm X 1090mm ■ 무게 : Approx. 490kg	■ 1520mm X 1115mm X 1160mm ■ 무게 : Approx. 180kg	■ 1440mm X 1315mm X 1061mm ■ 무게 : Approx. 180kg			
	재질	 Waterway : SUS316 & ALBC3 Gear box : SC480 Water/Foam Nozzle :SUS304 & SUS316 	 Waterway: Bronze and high grade SS Gear box: Nodular cast iron Water/Foam Nozzle: Bronze and high grade SS 	 Waterway : Ni-Al-Bronze Gear box : Ni-Al-Bronze Water/Foam Nozzle : Ni-Al-Bronze 			

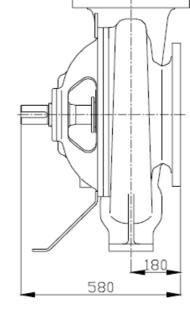












Technical data

Pump weight Direction of rotation

Pump casing materials Standard

Impeller and pump shaft Shaft seal

Static seal Wear rings

Coating
Static pressure
Performance testing
Pump head/capacity curve
Nominal speed
Nominal capacity
Nominal head
Inlet flange
Outlet flange

420 kg CW and CCW

Standard: Nodular cast iron

Optional: Stainless steel and nickel-

aluminium-bronze

Duplex stainless steel

Standard: Gland packing

Optional: Mechanical seal

Moulded O-ring

Renewable wear rings in pump casing and

pump cover

External red colour coating (RAL 3002)

testing 24 bar for all pressure exposed parts

All pumps individually tested

Each curve based upon factory testing

1800 rpm 1641 m³/h 140 mlc

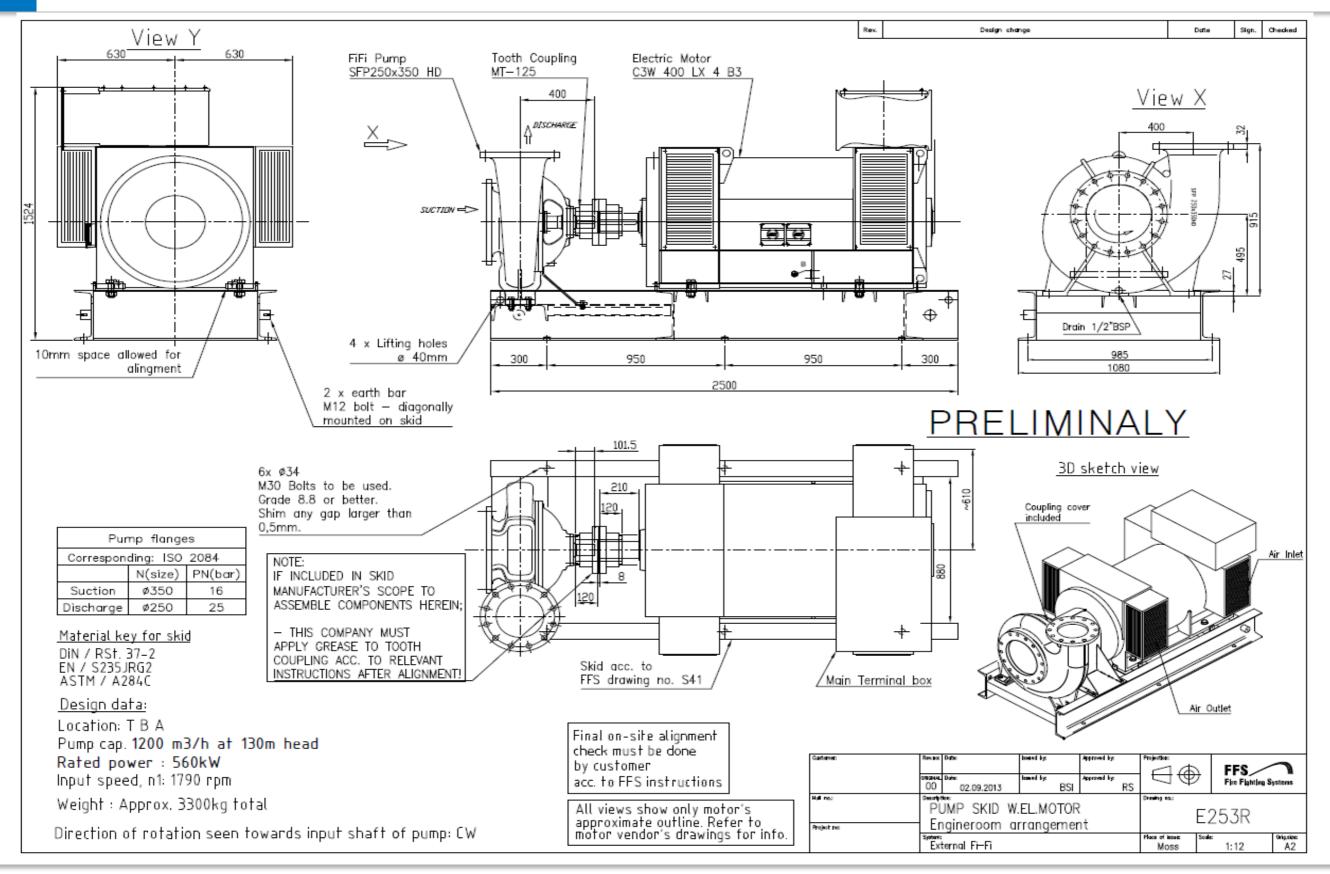
DN350/PN16 (DIN 2526 Form A)
DN250/PN25 (DIN 2526 Form A)





Technical data for SFP HD Fire pump with Motor (SFP 250x350HD)







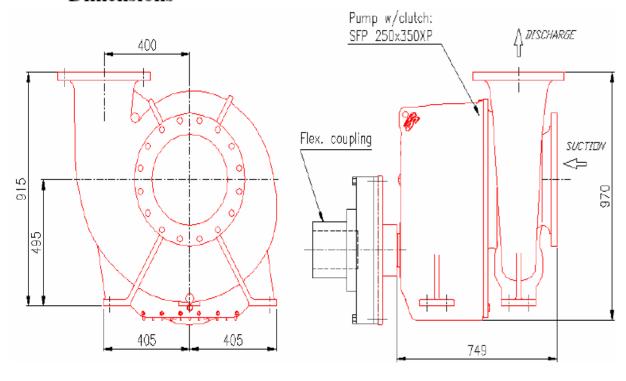


Technical data for SFP XP Fire pump with Clutch (SFP 250x350XP)





Dimensions



Technical data

Product name
Max nom. Capacity
Max nom. Torque in
Driven speed

Weight total

Power supply solenoid

Pump Casing

Impeller

Shaft water exposed

Shaft seals

Wear rings

Coating

Inlet flange

Outlet flange

Static test pressure

Pump head/Capacity

SFP 250X350XP

1850m3/h at 166m

135000Nm

Project specified

900kg

24Vdc

Nodular cast iron

Duplex stainless steel

Duplex stainless steel

Non-leaking-seals

Bronze, renewable

External red (RAL 3002)

DN350/PN16 (DIN2626-A)

DN250/PN25 (DIN2626-A)

24bar for water exposed parts

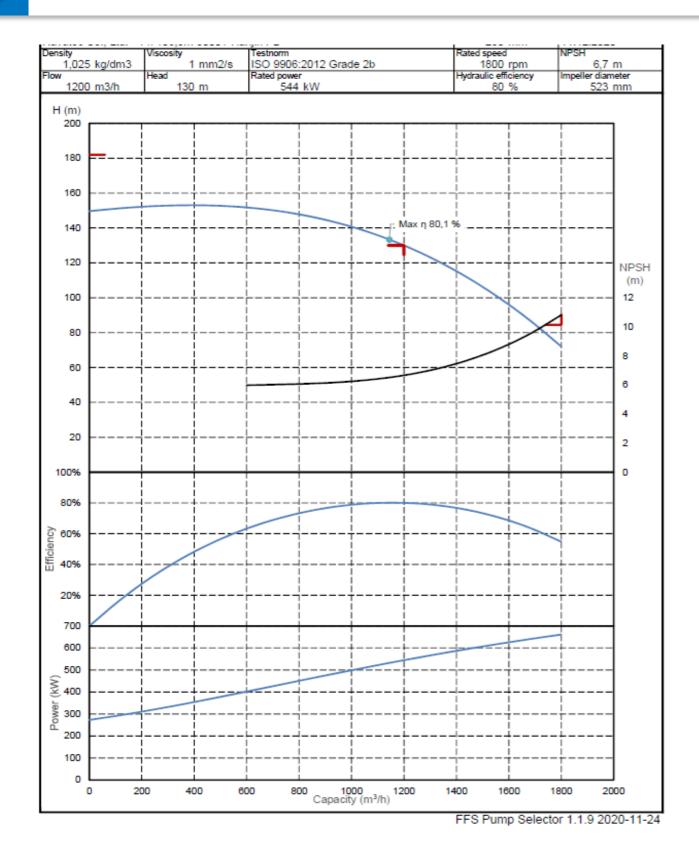
Curve based on individual factory test

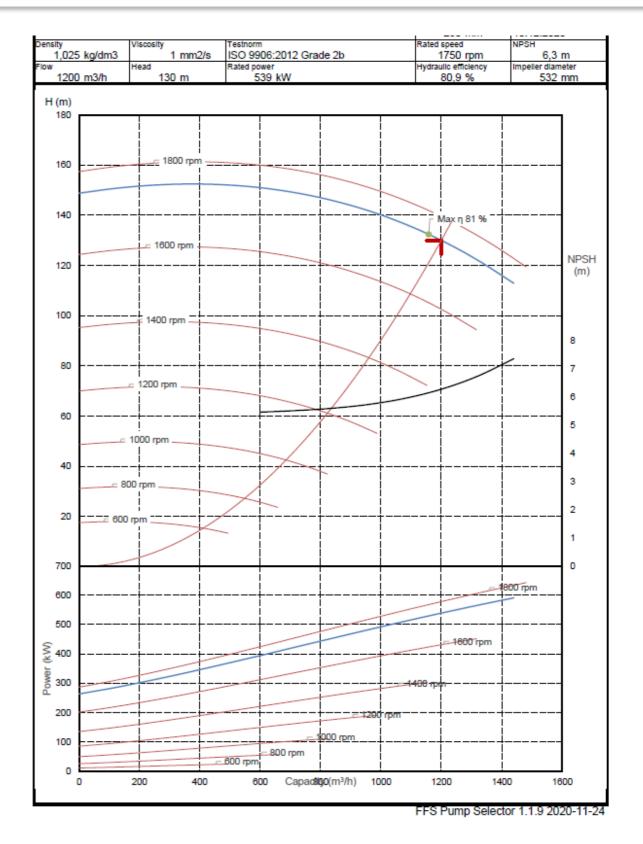




Pump performance curve (SFP 250x350HD)









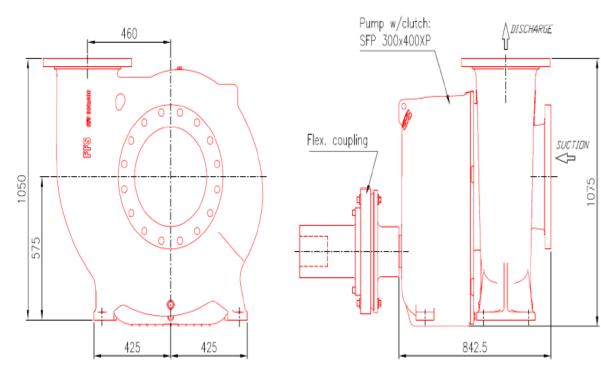


Technical data for SFP XP Fire pump with Clutch (SFP 300x400XP)





Dimensions



Technical data

Product name
Max nom. Capacity
Max nom. Torque in
Driven speed
Weight total
Power supply solenoid
Pump Casing

Impeller

Shaft water exposed

Shaft seals
Wear rings
Coating
Inlet flange

Outlet flange

Static test pressure Pump head/Capacity

SFP 300X400XP

2804m3/h at 155m

19000Nm

Project specified

1250kg 24Vdc

Nickel-aluminium-bronze

Duplex stainless steel

Duplex stainless steel

Non-leaking-seals

Bronze, renewable

External red (RAL 3002)

DN350/PN16 (DIN2626-A)

DN250/PN25 (DIN2626-A)

24bar for water exposed parts

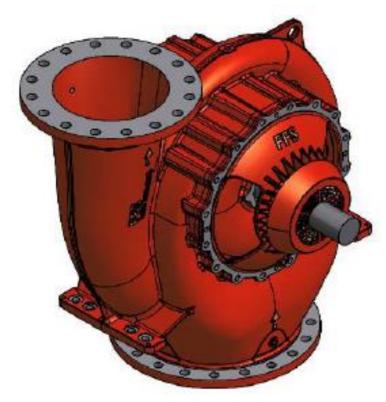
Curve based on individual factory test

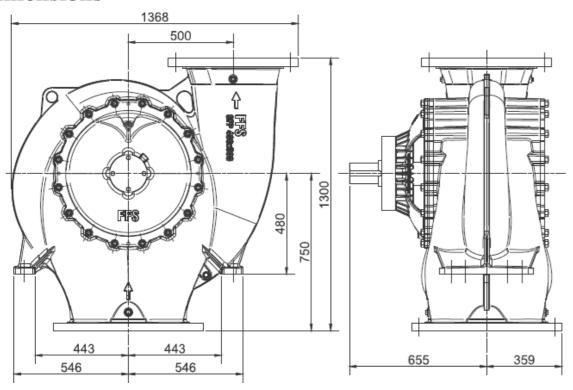












Technical data

Product name

Max nom. Capacity

Driven speed

Weight total

Power supply solenoid

Pump Casing

Impeller

Shaft water exposed

Shaft seals

Wear rings

Coating

Inlet flange

Outlet flange

Static test pressure

Pump head/Capacity

SFP 400X500XP

4200m3/h at 165m

Project specified

1085kg

24Vdc

Nickel-aluminium-bronze

Duplex stainless steel

Duplex stainless steel

Non-leaking-seals

Bronze, renewable

External red (RAL 3002)

DN350/PN16 (DIN2626-A)

DN250/PN25 (DIN2626-A)

24bar for water exposed parts

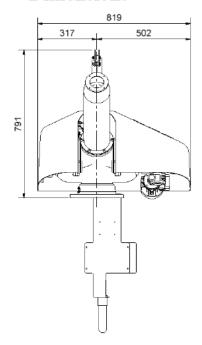
Curve based on individual factory test

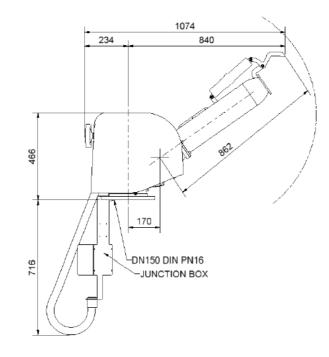












Technical data

Weight (standard execution)
Nominal capacity

Reduced capacity

Elevation sector Horizontal sector

Horizontal/elevation operation

Dual flow

Spray deflector Limit switches

Inlet pressure Static pressure testing

Power supply Inlet flange

Materials in internal wetted parts
Monitor cover
Seals
Coating

65 kg

600 m³/hour

150 m³/hour (Option)

-20° to +80°

300° (Option 360°)

Electrical with manual override

Electrical operation on/off (Option

Stepless)

Remote electrical operation

Easily adjustable

Selected from performance curve Factory tested at 1.5x max working

pressure

380-440V/3 phase/50 or 60 Hz + 24V DC

DN150/PN16 (DIN 2526 Form A)

Stainless steel / Ni-Al bronze /composites

Glass fibre reinforced polyester

Moulded nitrile O-rings

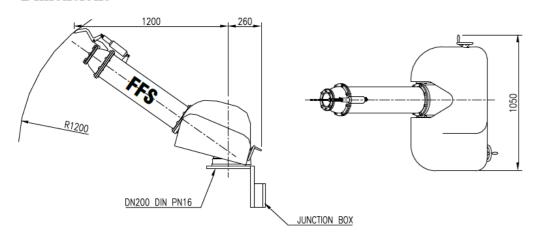
External red colour coating (RAL 3002)











Technical data

Weight (standard execution)
Weight (long barrel execution)

Nominal capacity
Reduced capacity
Elevation sector
Horizontal sector

Horizontal/elevation operation

Dual flow

Spray deflector Limit switches

Inlet pressure

Static pressure testing

Power supply

Inlet flange

Materials in internal wetted parts

Monitor cover

Seals

Coating

170 kg 180 kg

1200 m³/hour

300 m³/hour -20° to +80°

300° (Option 360°)

Electrical with manual override

On/off or stepless electrical operation

Remote electrical operation

Easily adjustable

Selected from performance curve

Factory tested at 1.5x max working

pressure

220-240V, 380-440V/3 phase/50 or 60 Hz

+ 24VDC

DN200/PN16 (DIN 2526 Form E)

Stainless steel / Ni-Al bronze /composites

Glass fibre reinforced polyester

Moulded nitrile O-rings

External red colour coating (RAL 3002)







Technical data



Weight
Nominal capacity
Reduced capacity
Elevation sector
Horizontal sector
Horizontal/elevation operation

Dual flow
Spray deflector
Limit switches

Inlet pressure
Static pressure testing

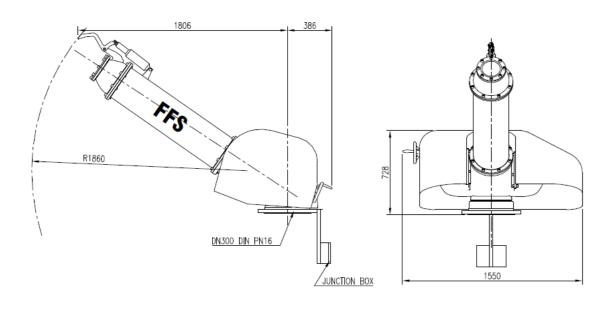
2400 m³/hour
600 m³/hour
-20° to +70°
+,-180°
Electrical with manual override
On/off or stepless electrical operation

350 kg

Remote electrical operation
Easily adjustable

Selected from performance curve Factory tested at 24bar

Dimensions



Power supply

Inlet flange

Materials in internal wetted parts
Monitor cover
Seals
Coating

380-440V/3 phase/50 or 60 Hz + 24VDC

DN300/PN16 (DIN 2526 Form A)

Stainless steel / Ni-Al bronze /composites Glass fibre reinforced polyester

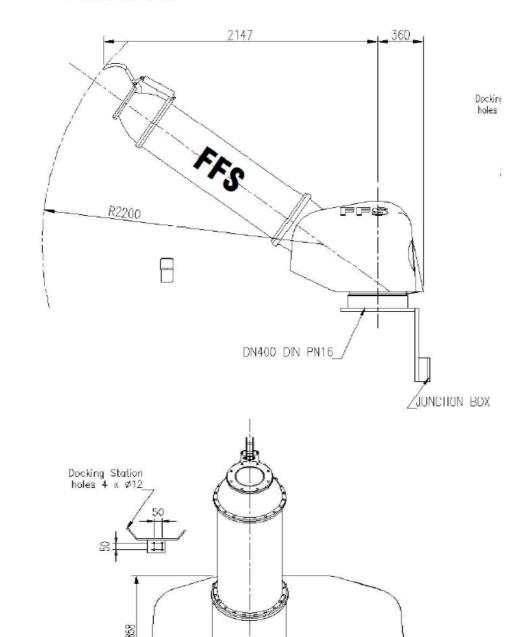
Moulded nitrile O-rings

External red colour coating (RAL 3002)









Technical data

Weight (standard execution)
Nominal capacity
Elevation sector
Horizontal sector
Horizontal/elevation operation
Spray deflector
Limit switches

Inlet pressure Static pressure testing

Power supply Inlet flange

Materials in internal wetted parts
Monitor cover
Seals
Coating

Approx 700 kg
3600 m³/hour
-20° to +80°
+,- 180°
Electrical with manual override
Remote electrical operation
Easily adjustable

Selected from performance curve Factory tested at 24bar

380-440V/3 phase/50 or 60 Hz + 24V DC DN400/PN16 (DIN 2526 Form A)

Stainless steel / Ni-Al bronze /composites
Glass fibre reinforced polyester
Moulded nitrile O-rings
External red colour coating (RAL 3002)



N BOX



Throw curve for FI-FI Monitor (FFS600/150LB, FFS300)



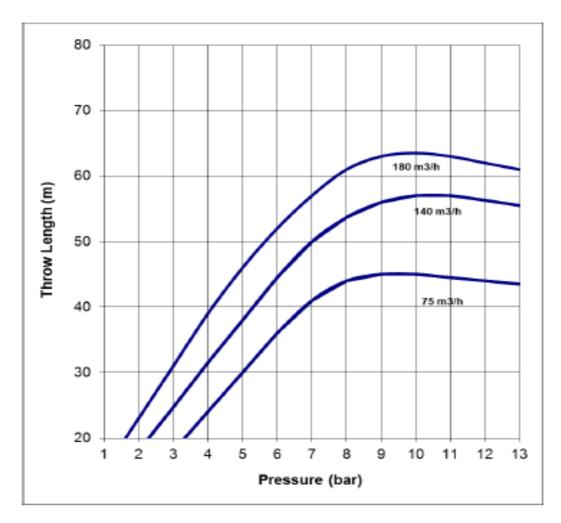
FFS-640 Rev.01 FFS-333 Rev. 03

FI-FI MONITOR THROW CURVE

MODEL: FF\$300

SEA WATER FLOW: 180, 140 and 75 m³/h

HORIZONTAL RANGE AT OPTIMAL WIND CONDITIONS

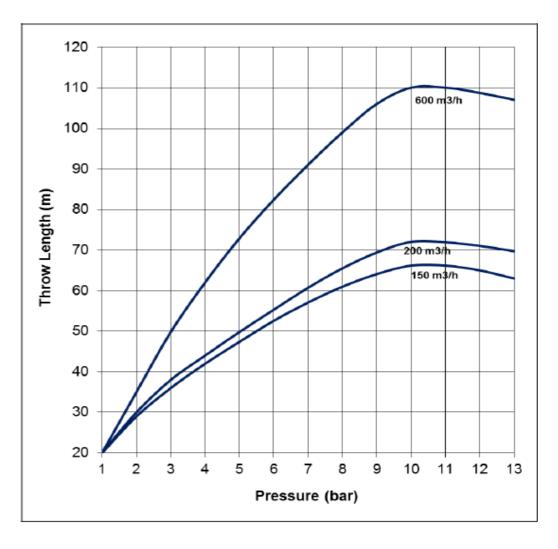


FI-FI MONITOR THROW CURVE

MODEL: FFS600/150LB

SEA WATER FLOW: 600, 200 and 150 m³/h

THEORETICAL HORIZONTAL RANGE AT WIND STILL CONDITIONS









Throw curve for FI-FI Monitor (FFS1200/300LB, FFS1200LB)



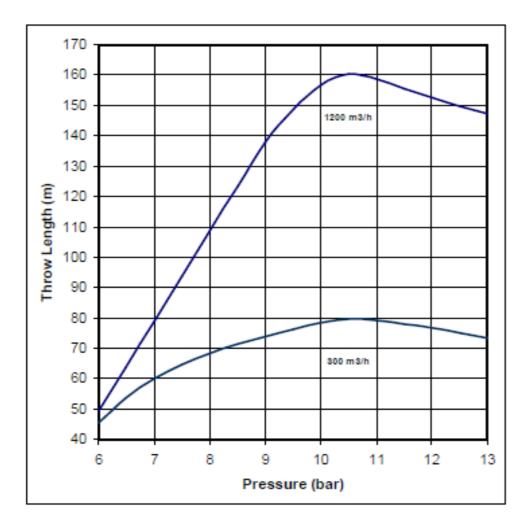
FFS-329 Rev.01

FI-FI MONITOR THROW CURVE

MODEL: FF\$1200/300 LB

SEA WATER FLOW: 1200 and 300 m³/h

HORIZONTAL RANGE AT OPTIMAL WIND CONDITIONS



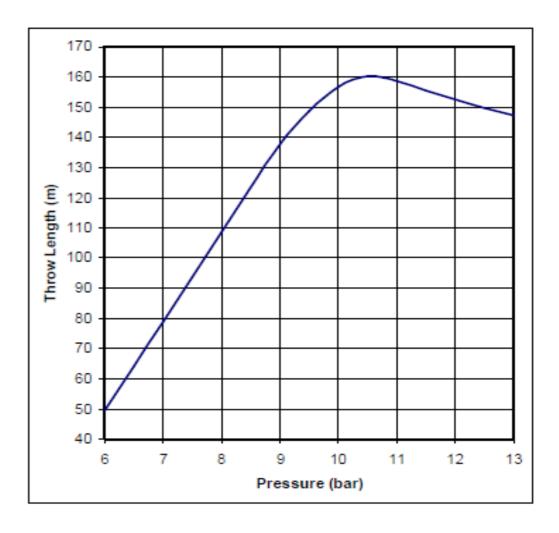
FFS-328 Rev.01

FI-FI MONITOR THROW CURVE

MODEL: FF\$1200 LB

SEA WATER FLOW: 1200 m³/h

HORIZONTAL RANGE AT OPTIMAL WIND CONDITIONS

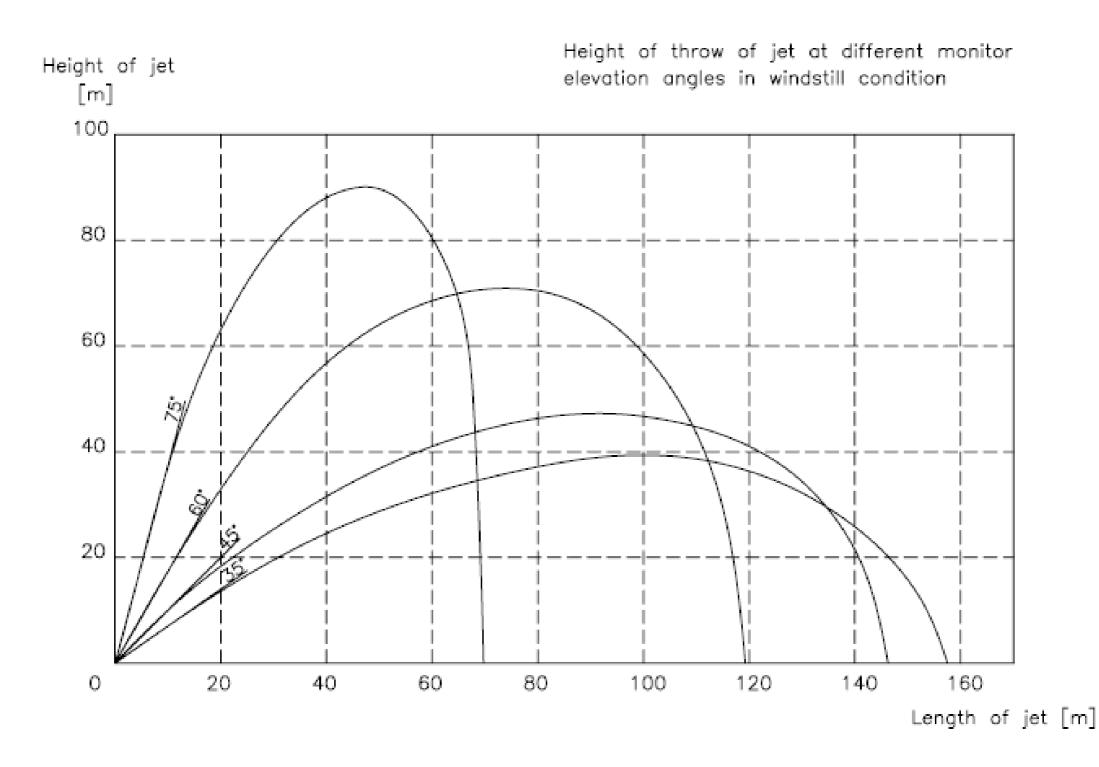






Throw length/height of Monitor (FFS1200LB)





Water capacity: 1200m3/h at appr. 10.5 bar







Throw curve for FI-FI Monitor (FFS2400/600LB)

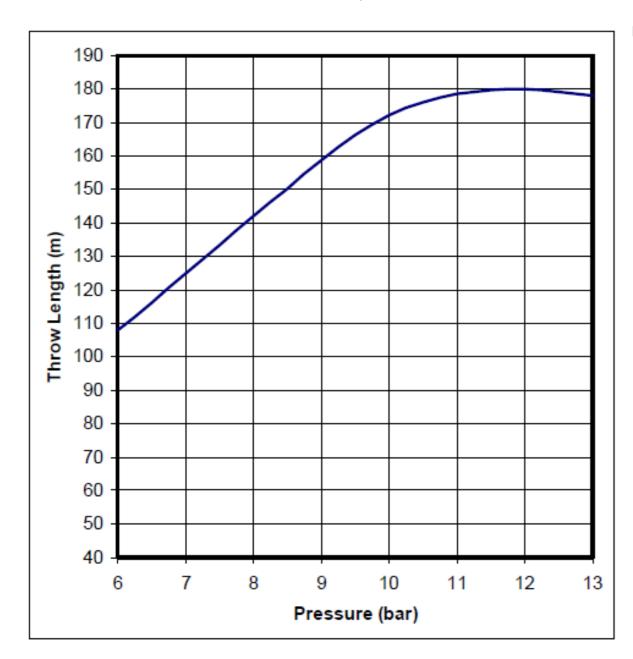


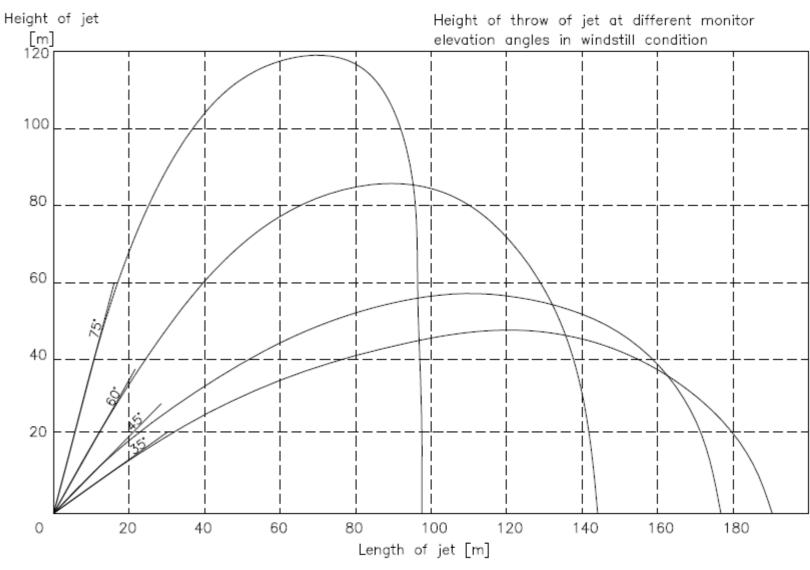
FI-FI MONITOR THROW CURVE

MODEL: FFS 2400

SEA WATER FLOW: 2400 m³/h

MINIMUM HORIZONTAL RANGE AT WIND STILL CONDITIONS





Water capacity 2400m³/h at appr. 12bar





Throw curve for FI-FI Monitor (FFS3600)



FFS-337 April 2009

FI-FI MONITOR THROW CURVE

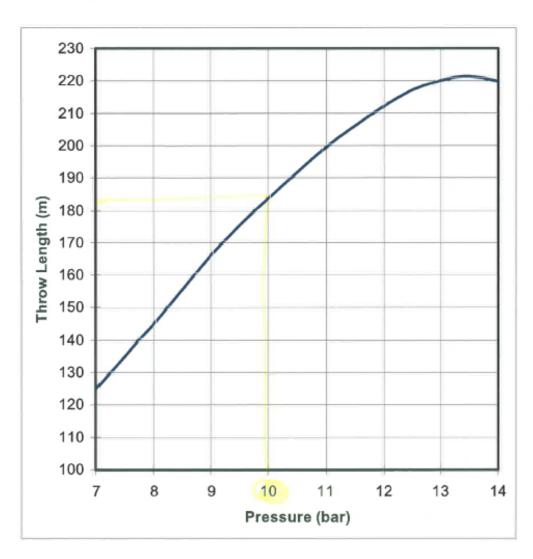
MODEL:

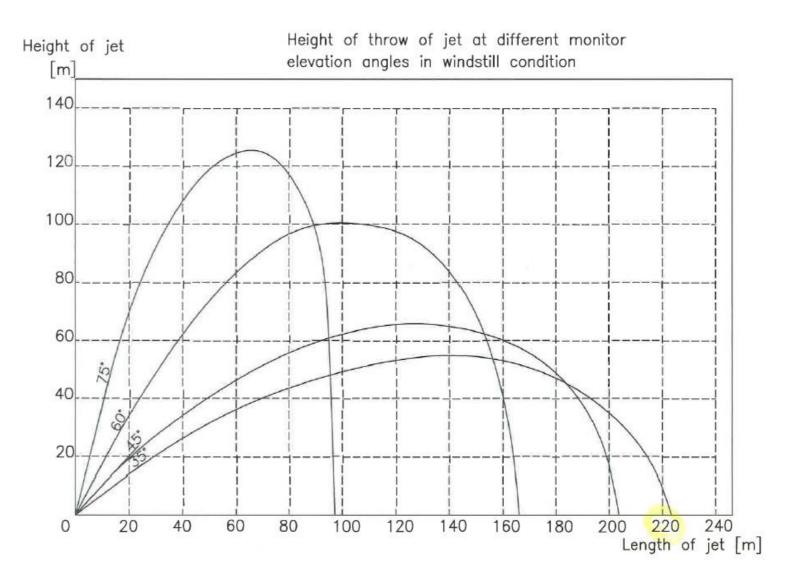
FFS 3600

SEA WATER FLOW:

3600 m³/h

MINIMUM HORIZONTAL RANGE AT WIND STILL CONDITIONS





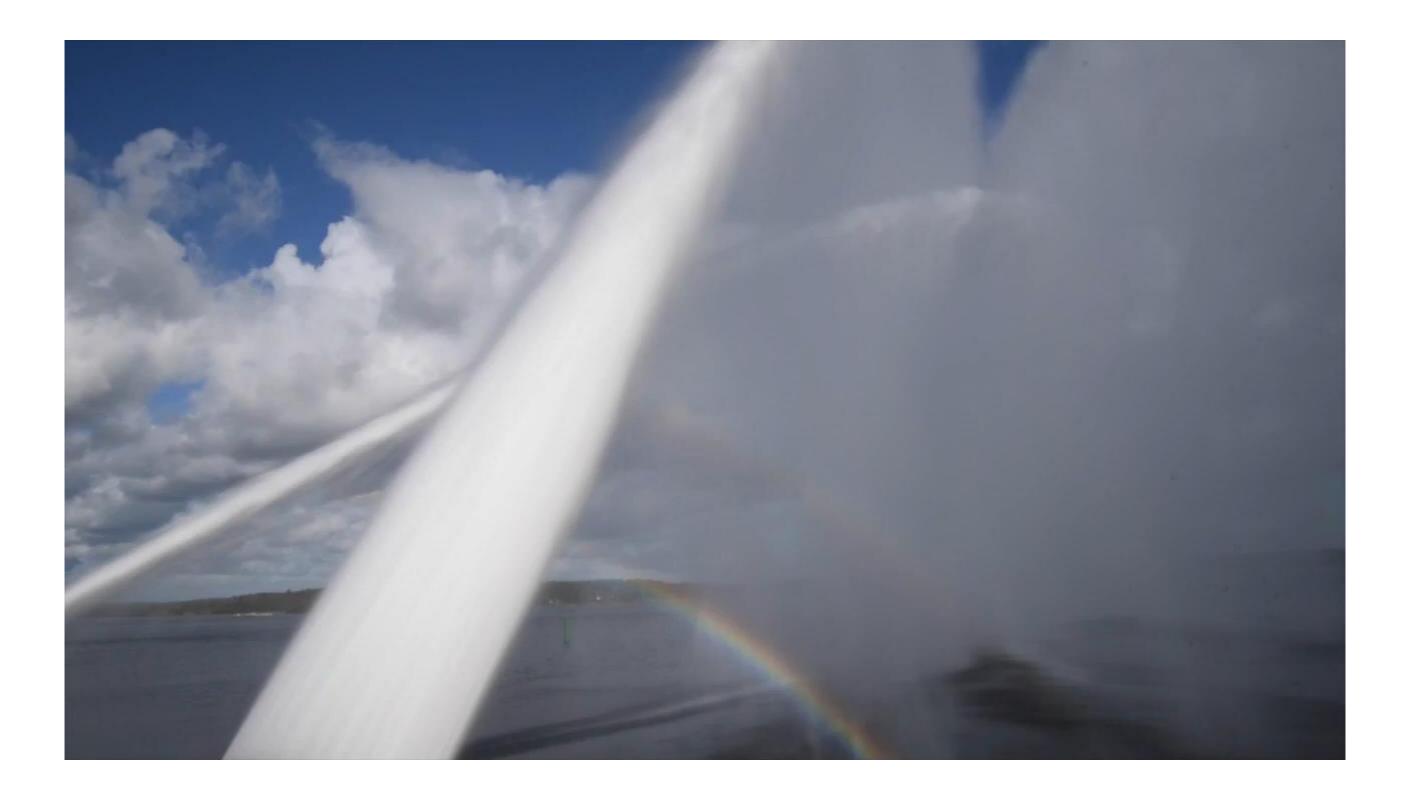
Water capacity: 3600m3/h at appr. 13 bar

























Video (FDNY 소방정)











Video (HEAVY FIRE VESSEL RED SAILFISH)









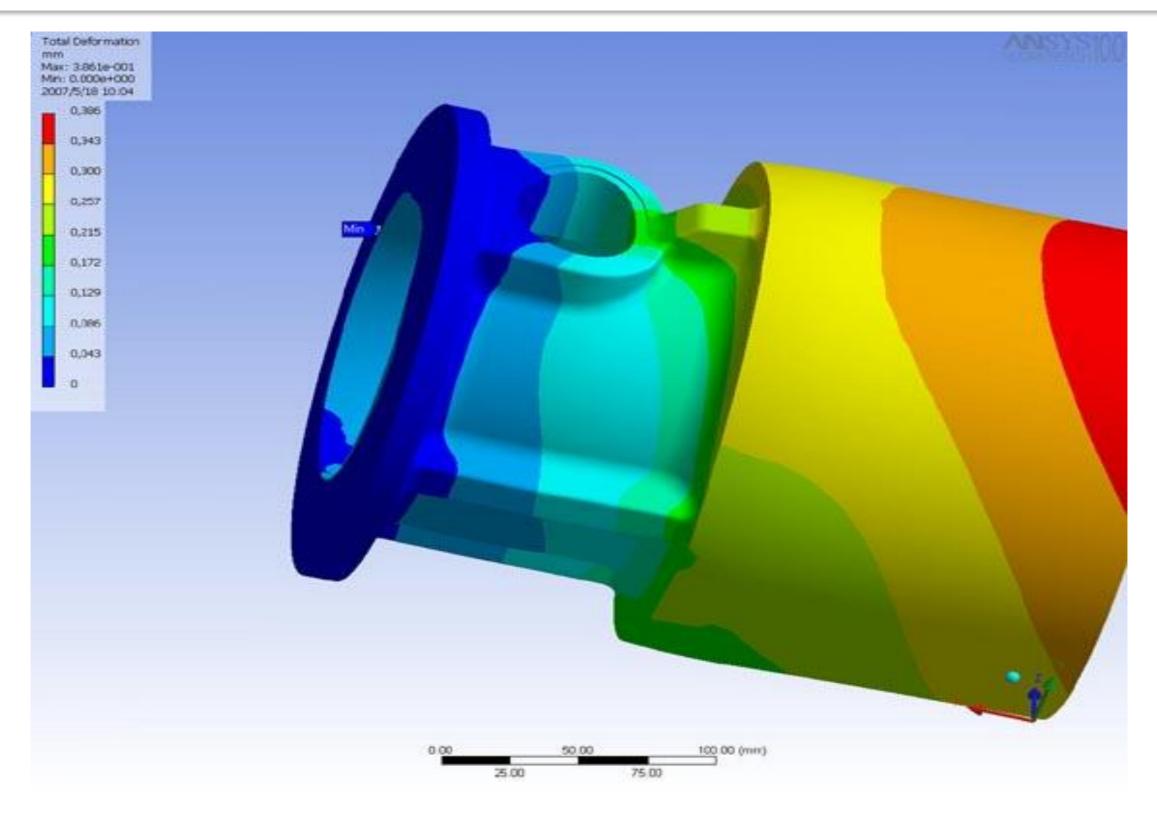






Engineering

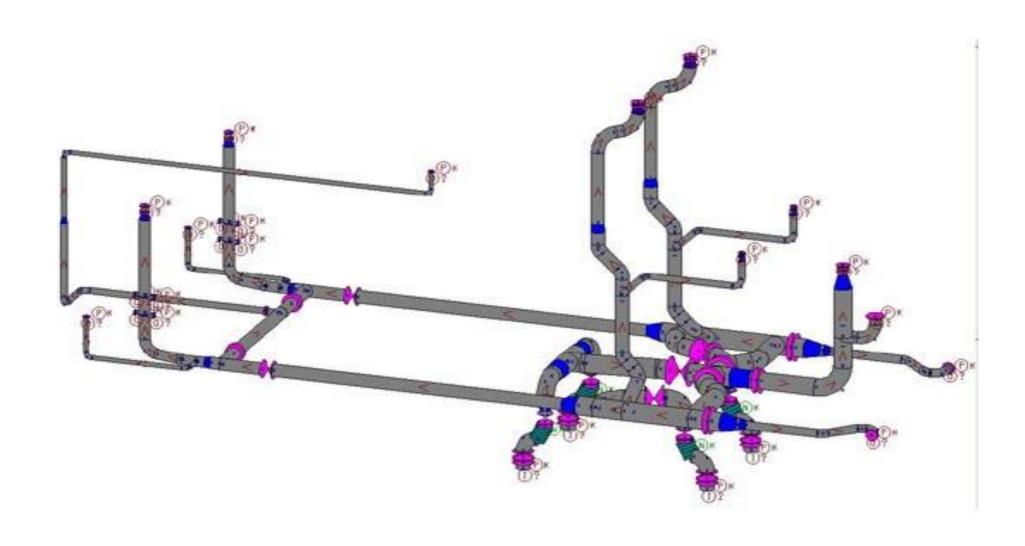




















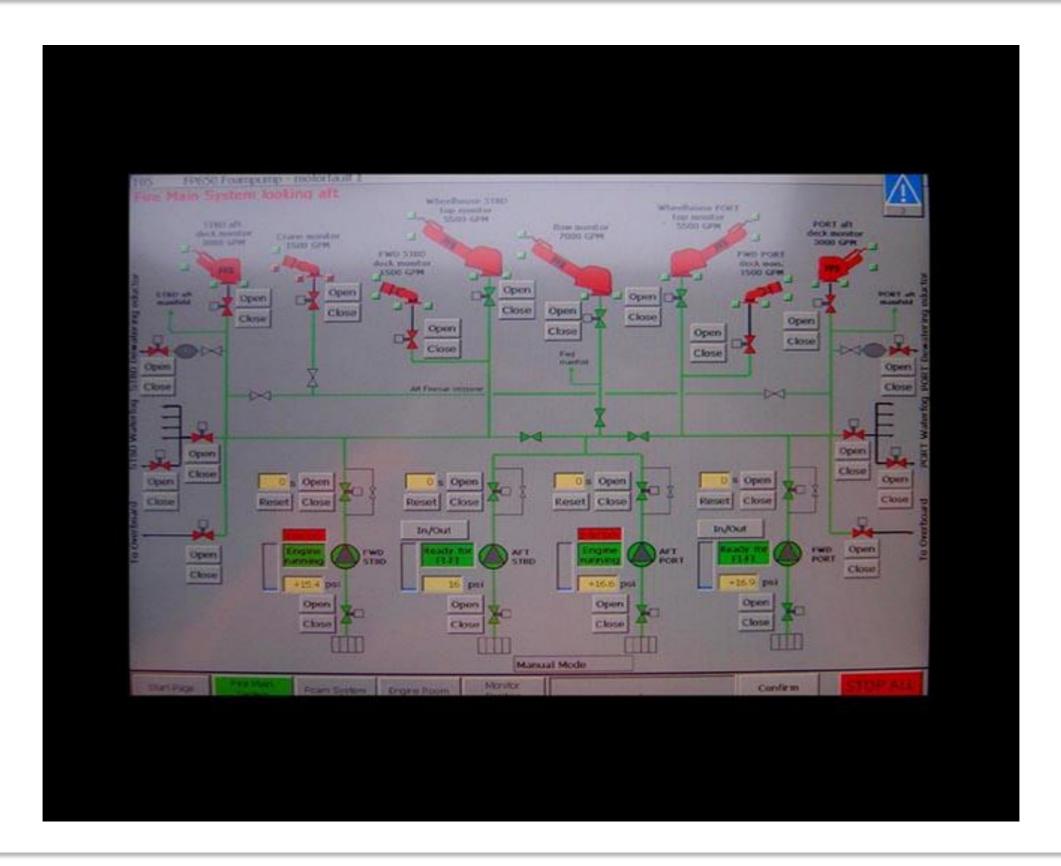






CONTROL (MIMIC PANEL)











CONTROL(MOBILE PANEL)







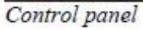








Portable monitor joystick panel







































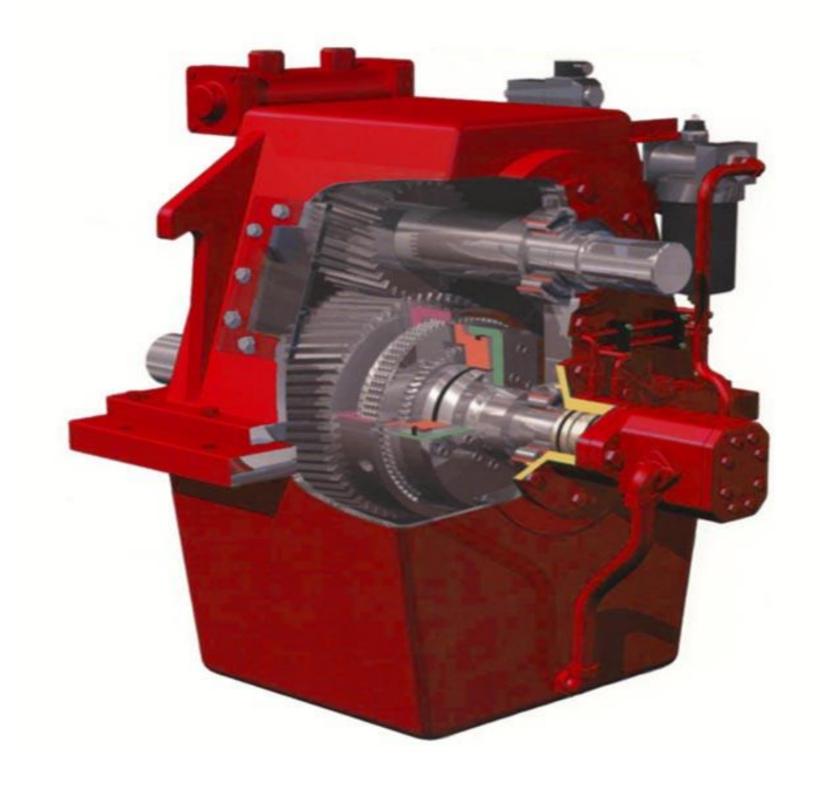










































































































Reference list



Reference List: Fire Fighting System (Far East) Pte Ltd

Country	Project No.	Yard	Hull No.	Owner	Vessel	FiFi Notation	Class	Year
Singapore	10-898A	Asian Sealand Engineering Pte Ltd	V10004		71.33m, Patrol Vessel	Half FiFi (1P+2M+WS)	-	2010
Taiwan	11-550A	Jong Shyn Shipbuilding Co., Ltd	JY118		119m, ROC Patrol Craft	- (1P+4M+WS)	DNV/CR	2011
Taiwan	11-550B	Jong Shyn Shipbuilding Co., Ltd	JY119		119m, ROC Patrol Craft	- (1P+4M+WS)	DNV/CR	2011
Indonesia	F500817A	PT Dumas Shipyard	125	PT Putindo	60m, Fast Patrol Boat	Qtr FiFi (2P+2M+WS)	RINA	2014
Indonesia	F500817B	PT Dumas Shipyard	126	PT Putindo	60m, Fast Patrol Boat	Qtr FiFi (2P+2M+WS)	RINA	2014
Taiwan	F501385A	Lung Teh Shipbuilding Co., Ltd	NB510	SCDF	19m, Fireboat	Qtr FiFi (2P+2M+WS+DH)	BV	2016
Taiwan	F501385B	Lung Teh Shipbuilding Co., Ltd	NB511	SCDF	19m, Fireboat	Qtr FiFi (2P+2M+WS+DH)	BV	2016
Singapore	F501692A	ST Marine Ltd	BO680	SCDF	50m, HFV (Fireboat)	FFV 3 (4P+12M+WS+DH)	ABS	2016
Singapore	F501693A	Penguin Shipyard International Pte Ltd	H303	SCDF	35m, MRV (Fireboat)	FiFi 1 (2P+3M+WS+DH)	BV	2016
Singapore	F501694A	Penguin Shipyard International Pte Ltd	H305	SCDF	40m, HRV (Fireboat)	FiFi 1 (2P+2M+WS+DH)	BV	2016
China	F502166A	Yizheng Xinyang Shipbuilding Co., Ltd	XYCB2014-20	Qingdao Fire Department	61.6m, 1200Ton Fire Fighting Boat	FiFi 2 (4P+9M+WS+DH)	CCS	2017
China	F502167A	Yizheng Xinyang Shipbuilding Co., Ltd	XYCB2014-19	Qingdao Fire Department	41.3m, 350Ton Fire Fighting Boat	FiFi 1 (2P+7M+WS+DH)	CCS	2017
Singapore	F502264A	ST Marine Ltd	BO682	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264B	ST Marine Ltd	BO683	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264C	ST Marine Ltd	BO684	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264D	ST Marine Ltd	BO685	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264E	ST Marine Ltd	BO686	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264F	ST Marine Ltd	BO687	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502284G	ST Marine Ltd	BO688	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264H	ST Marine Ltd	BO689	SPCG	23m. SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264I	ST Marine Ltd	BO690	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264J	ST Marine Ltd	BO691	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264K	ST Marine Ltd	BO692	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264L	ST Marine Ltd	BO693	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264M	ST Marine Ltd	BO696	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264N	ST Marine Ltd	BO697	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264O	ST Marine Ltd	BO698	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264P	ST Marine Ltd	BO699	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264Q	ST Marine Ltd	BO700	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
	F502264R	ST Marine Ltd	BO701	SPCG	23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264S	ST Marine Ltd	BO702	SPCG	23m, SPCG Fast Petrol Boats		LR	2019
Singapore	F502264T	ST Marine Ltd	BO703	SPCG		Qtr FiFi (1P+1M+WS) Qtr FiFi (1P+1M+WS)	LR	2019
Singapore	F502264U	ST Marine Ltd	BO704	SPCG	23m, SPCG Fast Petrol Boats 23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS)	LR	2019
Singapore		ST Marine Ltd	BO705	SPCG			LR	2019
Singapore	F502264V F502264W		BO706		23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS) Qtr FiFi (1P+1M+WS)	LR	2019
Singapore		ST Marine Ltd	BO707	SPCG SPCG	23m, SPCG Fast Petrol Boats			_
Singapore	F502264X F502271A	ST Marine Ltd	JL39.20-GL-01		23m, SPCG Fast Petrol Boats	Qtr FiFi (1P+1M+WS) Qtr FiFi (1P+1M)	LR	2019
China		Jianglong Boat Technology Co., Ltd		Chongqing Fire Department	39.2m, Command Fireboat			
Taiwan	F502494A	Lung Teh Shipbuilding Co., Ltd	NB530	0 : 5 5	18.5m, Fireboat	Qtr FiFi (2P+2M+WS+DH)	BV	2018
China	F502910A	Guangdong Yuexin Ocean Engineering Co., Ltd	YX6001	Chongqing Fire Department	48m, Main Fireboat	FiFi 1 (2P+7M+WS+DH)	CCS	2018
China	F502910B	Guangdong Yuexin Ocean Engineering Co., Ltd	YX6002	Chongqing Fire Department	48m, Main Fireboat	FiFi 1 (2P+7M+WS+DH)	CCS	2018
China	F502910C	Guangdong Yuexin Ocean Engineering Co., Ltd	YX6003	Chongqing Fire Department	55m, Integrated Fireboat	FiFi 1 (2P+7M+WS+DH)	CCS	2018
China	F502910D	Guangdong Yuexin Ocean Engineering Co., Ltd	YX6005	Chongqing Fire Department	55m, Integrated Fireboat	FiFi 1 (2P+7M+WS+DH)	CCS	2018
China	F503256A	Jianglong Boat Technology Co., Ltd	JL38.50S-GL-01	Guangzhou Fire Department	38.68m, Fireboat	FiFi 1 (2P+4M+WS+DH)	CCS	2019
China	F503762A	Jianglong Shipbuilding Co., Ltd	JL46. 00S-GL-01	Huizhou Daya Bay Zone Petrochemical Fire Guildance Center	48m, Daya Bay 600Ton Coastal Fireboat	FiFi 2 (3P+7M+3FP+3BP+WS)	CCS	2020
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Reference List - External Fire Fighting System

Year	Shipyard	Hull No	Project	CLASS NOTATION	Class
2009	SAEKWANG	H1187	86m Multifunctional Anchor Handling/Tug/Supply/Service vessel (UT-786CD)	FIRE FIGHTER II	DNV
2009	SAEKWANG	H1188	86m Multifunctional Anchor Handling/Tug/Supply/Service vessel (UT-786CD)	FIRE FIGHTER II	DNV
2010	SAEKWANG	H1189	86m Multifunctional Anchor Handling/Tug/Supply/Service vessel (UT-786CD)	FIRE FIGHTER II	DNV
2010	SAEKWANG	H1190	86m Multifunctional Anchor Handling/Tug/Supply/Service vessel (UT-786CD)	FIRE FIGHTER II	DNV
2014	ННІ	H2652	154.9m Salt AV Accommodationvessel	FIRE FIGHTER II	DNV
	ННІ	H2649	150.05m Multi-Purpose Offshore Construction Vessel	FIRE FIGHTER II	DNV
	SPP	S1552	MOSS 919 84m 220T BO Anchor handling tug supply vessel	FIRE FIGHTER II	DNV+RINA







THANK YOU

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