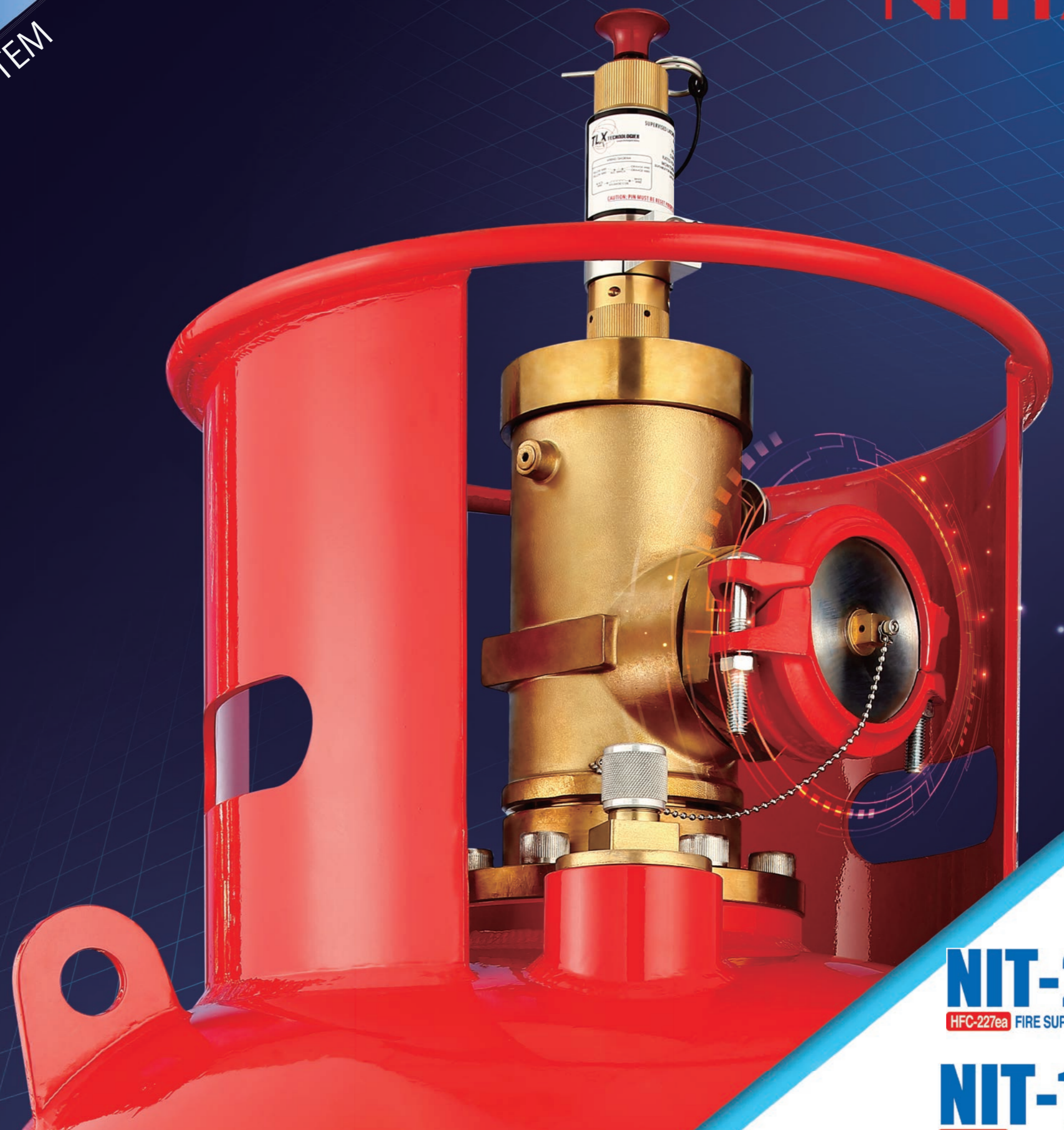


NITTAN

CLEAN AGENT FIRE SUPPRESSION SYSTEM



LISTED
5NX3
EX28472

NITTAN COMPANY, LIMITED

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LISTED

NIT-200

HFC-227ea FIRE SUPPRESSION SYSTEM

NIT-1230

FK-5-1-12 FIRE SUPPRESSION SYSTEM

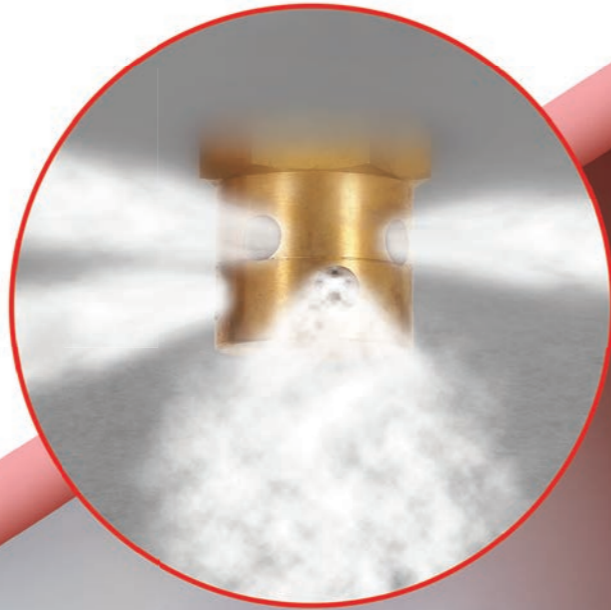
FIRE SUPPRESSION SYSTEMS

NIT-200

HFC-227ea FIRE SUPPRESSION SYSTEM

NIT-1230

FK-5-1-12 FIRE SUPPRESSION SYSTEM



Clean Agent Fire Suppression Systems

Gaseous fire suppression systems that suppress fires quickly without harming equipment, facility, inhabitants or the environment. Available in 25, 42 and 50 bar.

FK-5-1-12

FK-5-1-12 is the most environmentally friendly agent available. It is stored as liquid but is discharged through NITTAN NIT-1230 fire suppression system as a colorless and electrically non-conductive gas vapour that has an extremely low atmospheric life time.

HFC-227ea

NITTAN NIT-200 fire suppression system uses HFC-227ea, a colorless, odourless, non-corrosive and electrically non-conductive gas agent that leaves no residue and which provides greater protection coverage in a shorter period of time than traditional systems.



Commercial Building



Tunnel - Rail - Road



Petrochemical - Offshore



High-Value Asset



Headquarter Control



Industry



TLC & Computer



Airplane - Hangar



FACILITIES



Room Integrity Test Fan



Cylinders of Various Sizes



HFC-227ea Gas (1 Tonne Tanks)



HFC-227ea



FK-5-1-12



FK-5-1-12 Gas (250 Kg Tanks)



Agitator



Filling Machine

CAPABILITIES

1. Inspection

We provide professional inspection services to test the specifications of our client's property in order to provide them with a customised fire suppression system for optimal protection.



3. Training

After installation/purchase of our products, we provide comprehensive product training and efficient technical support to our clients to ensure that they get the optimum performance out of the products and systems.

2. Design & Customisation

Using our state-of-the-art software, we are able to design and customise firefighting equipment and fire suppression systems that fit the specific requirements of our client's property.



Cylinder Assemblies for HFC-227ea & FK-5-1-12

For 25 Bar system

TPED Welded Cylinders	Capacity (L)	Pressure (Bar)	Valve Outlet Size (in.)	Diameter (mm)	Height (mm)
NIT020-CW-032B-EN	32	25	1-1/2"	324	682
NIT020-CW-052-EN	52	25	1-1/2"	324	925
NIT020-CW-100-EN	100	25	1-1/2"	406	1124
NIT020-CW-120B-EN	120	25	2"	406	1294
NIT020-CW-150-EN	150	25	2"	406	1557
NIT020-CW-180-EN	180	25	2"	462	1442
NIT020-CW-200-EN	200	25	2"	462	1572
NIT031-CW-240-EN	240	25	3"	512	1656
NIT021-CW-300-EN	300	25	3"	612	1596
NIT022-CW-369-EN	369	25	3"	612	1840



For 42 & 50 Bar system

TPED Welded Cylinders	Capacity (L)	Pressure (Bar)	Valve Outlet Size (in.)	Diameter (mm)	Height (mm)
NIT200-CS-010-EN	10	42	1"	140	919
NIT200-CS-020-EN	20	42	1"	204	894
NIT200-CS-030-EN	30	42	1"	204	1229
NIT200-CS-050-EN	50	42	1-1/2"	229	1577
NIT200-CS-080-EN	80	42	1-1/2"	360	1162
NIT200-CS-100-EN	100	42	1-1/2"	360	1377
NIT200-CS-140-EN	140	42	2"	360	1852



Cylinder components

Discharge hose

Model	NIT-DH-010-38MM	NIT-DH-010-50MM	NIT-DH-011-50MM	3" Discharge Hose Assembly
Name	DN38	DN50	DN50	DN80
Material	Synthetic Rubber Hose with high tensile steel wire reinforcement			Hose: Stainless Steel Coupling: Ductile Iron
	Single Braided			
Temperature Range	-10 to 60 degrees at Celsius			-10 to 60 degrees at Celsius
Length from Elbow Inlet	465mm	520mm	520mm	650mm
Elbow Inlet	1-7/8"-12 UNJ	2-1/2" - 12 UNJ	2-1/2" - 12 UNJ	3" Groove Connection
Outlet	2" BSP	2-1/2" BSP	2-1/2" BSP	3" Groove Connection
Remark	-	-	For a cylinder with protective shroud	



Check valve

Model	NIT101-CV-050-UL	NIT101-CV-065-UL	NIT101-CV-080-UL
Seat	Nylon	Nylon	Gun Metal
Temperature Range	-10 to 60 degrees at Celsius		
Length from Elbow Inlet	465mm	520mm	520mm
Elbow Inlet	1-7/8"-12 UNJ	2-1/2" - 12 UNJ	2-1/2" - 12 UNJ
Outlet	2" BSP	2-1/2" BSP	2-1/2" BSP
Remark	-	-	For a cylinder with protective shroud



System components

Actuator



Model	Description	Actuating Force (lbs)	Connection	Remark
NIT110-ACT-MNL-UL	Latching Solenoid Actuator (For master cylinder only)	12-40 lbs	1-1/8" × 18 UNEF	Power: 24VDC
NIT110-ACT-LAT-UL	Manual Actuator Button (For master cylinder only)	12-40 lbs	1-1/8" × 18 UNEF	
NIT111-ACT-PNE-UL	Pneumatic Actuator (For every slave cylinders)	12-40 lbs	1-1/4" × 18 UNEF	Pilot hose connection: 1/8" NPT

Liquid level indicator



Model	Description	Cylinder size	Inlet size
NIT-040-CU-010-UL	Liquid Level Indicator (For 240L Cylinder and the above)	240L and the above	2"-11.5 NPSC

Valve outlet adaptor



Model	Description	Material	Connection
NIT227-CS-DN25-ADAPTOR	Valve Outlet Adaptor for 1" Discharge Valve	Brass	1-7/16" × 12 UN
NIT227-CS-DN33-ADAPTOR	Valve Outlet Adaptor for 1-1/2" Discharge Valve	Brass	1-7/16" × 12 UN
NIT227-CS-DN49-ADAPTOR	Valve Outlet Adaptor for 2" Discharge Valve	Brass	1-1/2" × 12 UN

Discharge nozzle



Model	Description	Height (mm)	Diameter (mm)
NIT075-N-015-UL	1/2", 360 Degree Nozzle for NIT-200	45	31.75
NIT075-N-020-UL	3/4", 360 Degree Nozzle for NIT-200	45	38.1
NIT075-N-025-UL	1", 360 Degree Nozzle for NIT-200	56	44.45
NIT075-N-032-UL	1-1/4", 360 Degree Nozzle for NIT-200	67	50.8
NIT075-N-040-UL	1-1/2", 360 Degree Nozzle for NIT-200	70	63.5
NIT075-N-050-UL	2", 360 Degree Nozzle for NIT-200	88	76.2
NIT076-N-015-UL	1/2", 360 Degree Nozzle for NIT-1230	45	31.75
NIT076-N-020-UL	3/4", 360 Degree Nozzle for NIT-1230	45	38.1
NIT076-N-025-UL	1", 360 Degree Nozzle for NIT-1230	56	44.45
NIT076-N-032-UL	1-1/4", 360 Degree Nozzle for NIT-1230	67	50.8
NIT076-N-040-UL	1-1/2", 360 Degree Nozzle for NIT-1230	70	63.5
NIT076-N-050-UL	2", 360 Degree Nozzle for NIT-1230	88	76.2

Pilot line hose



Model	Description	Material	Connection
NIT-PL-008-560MM	Pilot Line Hose - 560mm	Synthetic rubber hose with 2 high tensile steel wire braids reinforcement	1/8" BSP
NIT-PL-008-760MM	Pilot Line Hose - 760mm		1/8" BSP

Pressure gauge



Model	Description	Connection
NIT170-PG-25B-HFC	HFC Pressure gauge - 25B	1/8" NPT
NIT170-PG-42B-HFC	HFC Pressure gauge - 42B	1/8" NPT
NIT170-PG-50B-HFC	HFC Pressure gauge - 50B	1/8" NPT
NIT170-PG-25B-FK	FK Pressure gauge - 25B	1/8" NPT
NIT170-PG-42B-FK	FK Pressure gauge - 42B	1/8" NPT
NIT170-PG-50B-FK	FK Pressure gauge - 50B	1/8" NPT

Pressure gauge with low pressure switch



Model	Description	Connection	Operating pressure (Bar)
NIT169-PGS-25B-HFC	HFC Pressure gauge with low pressure switch- 25 Bar	1/8" NPT	20.5±1.5
NIT169-PGS-42B-HFC	HFC Pressure gauge with low pressure switch- 42 Bar	1/8" NPT	32.0±2.5
NIT169-PGS-50B-HFC	HFC Pressure gauge with low pressure switch- 50 Bar	1/8" NPT	36.0±3.0
NIT169-PGS-25B-FK	FK Pressure gauge with low pressure switch- 25 Bar	1/8" NPT	20.5±1.5
NIT169-PGS-42B-FK	FK Pressure gauge with low pressure switch- 42 Bar	1/8" NPT	32.0±2.5
NIT169-PGS-50B-FK	FK Pressure gauge with low pressure switch- 50 Bar	1/8" NPT	35.0±2.5