KANEX®

TECHNICAL DATASHEET

Doc. No. : KFFPL/GTP/KFDRQ-4-P
MODEL NUMBER : **KFDRQ-4-P**

BC DRY POWDER PBC CARTRIDGE PRESSURE 4 KG FIRE EXTINGUISHER

Applicable Class of fire - B, C and electrically started fires.
Brief description: These extinguishers come with nominal charge of 4 kg (±2%) dry powder & CO2 gas cartridge of 120 grams as per IS:4947. Body is constructed of MS Sheet by MIG Welding process and brass forged discharge Valve, Internally & Externally epoxy powder coated.

Client :
PO Number :

1.	**GENERAL DATA**	
	Manufacturer	: Kanadia Fyr Fyter Pvt. Ltd.
	Trade Mark	: "KANEX"
	BIS standard code	: IS 15683:2018
	Type	: Portable Cartridge Operated
2.	**MATERIAL OF CONSTRUCTION**	
	Extinguishing medium	: Potassium Bi Carbonate **(PBC)** dry powder (IS 4308:2019)
	Body	: Mild Steel Sheet having Max. of 0.25% **C**, 0.05% **P** and 0.05% **S (IS 513)**
	Neck Ring	: MS Pipe - M74x2.0 Male threaded
	Valve	: Brass - M74x2.0 Female threaded
	CO2 gas cartridge	: 120 gram constructed as per IS:4947
	Inlet siphon tube	: Aluminum / Brass
	Outlet siphon tube	: PVC / Aluminum / Brass
	Discharge hose with nozzle	: Rubber braided EPDM hose with PVC nozzle (Burst pressure ≥ 55 bar)
	Wall mounting bracket with screw	: MS Powder coated
3.	**PERFORMANCE DATA**	
	Fire rating	: 183B
	Performance requirements	: **Min. Effective discharge time :** 15 Sec. (Actual : 18 Sec. Approx.) **Min. Bulk range of discharge :** 2 Mtr. (Actual : 3 Mtr. Approx.) **Min. Percentage of discharge :** 85% (Actual : 94% Approx.)
	Temperature Range	: -30° to +60° C
	Service pressure	: 15 bar
	Max. service pressure	: 18 bar
4.	**ROUTINE TESTS**	
	Hydro Pressure Test (Pt)	: 35 bar (3.5 MPa) Hold for 1 min.
	Min. Burst pressure (Pb) for body	: 55 bar (5.5 MPa) Hold for 1 min.
	Leakage test	: By dipping into water for cartridges only
	Partial discharge	: The second pressure or weight shall not be less than 75% of the first after interruption of the Discharge
5.	**TYPE TESTS**	: As per IS 15683:2018
6.	**DIMENSIONS**	: **Diameter :** 140 ± 5 mm : **Height :** 510 mm Approx.
	Thickness of sheet	: Made up from 2.0mm thick sheet
	Full weight of extinguisher	: 7.8kg (Approx.)
7.	**ANTI-CORROSIVE TREATMENT**	: Phosphate treatment followed by epoxy powder coating of body DFT not less than 50 Micron
8.	**MISCELLEANEOUS**	
	Inspection & testing	: As per approved QAP
	Finish	: PO Red as per IS : 5 (Shade 538)
	Marking	: As per IS 15683:2018
	Approvals	: BIS
	Maintenance, care and refilling	: As per IS 2190
9.	**IN BOX ACCESSORIES**	: Wall mounting bracket with screw
10.	**PACKING**	: Corrugated boxes (Outer box sizes: 360x170x545mm)

MODEL NO. : KFDRQ-4-P

MARKING : AS PER IS 15683:2018

APPROVAL : BIS - ISI MARKED

DESIGN DATA

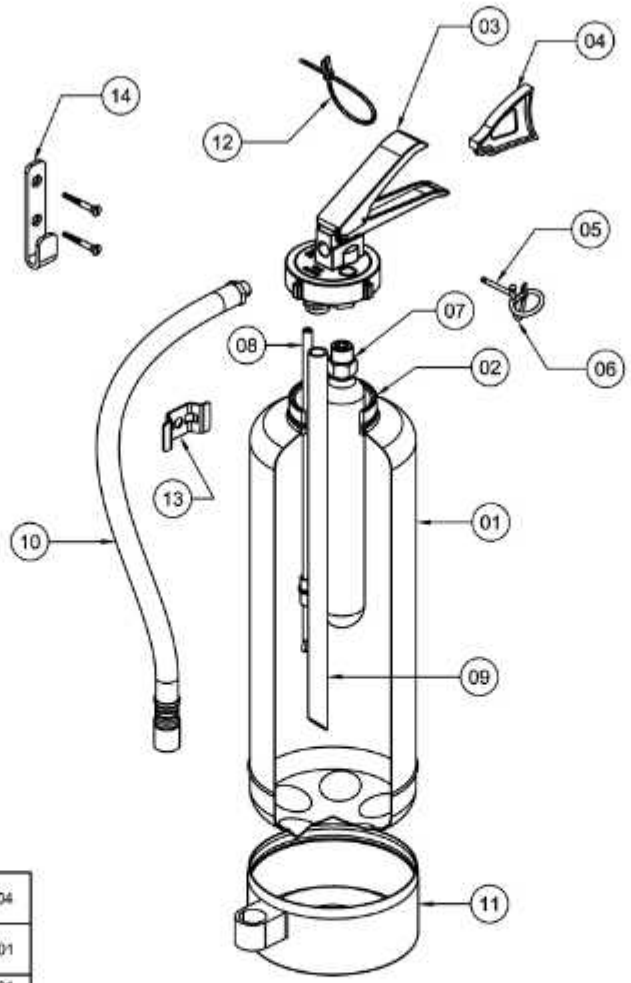
SR. NO.	PARTICULARS	DESCRIPTION
01	CAPACITY	4 KG ± 2%
02	TEMPERATURE RANGE	-30°C TO +60°C
03	SERVICE PRESSURE	15 bar
04	MAX. SERVICE PRESSURE	18 bar
05	PRESSURE TEST (PT)	35 bar HOLD FOR 1 min.
06	MIN. BURST PRESSURE TEST (PB)	55 bar HOLD FOR 1 min.

PERFORMANCE PARAMETERS

01	EFFECTIVE DISCHARGE TIME	MIN. 15 SEC. (Actual : 18 sec. aprx.)
02	BULK RANGE OF DISCHARGE	MIN. 2 METER (Actual : 3 meter aprx.)
03	PERCENTAGE OF DISCHARGE	NOT LESS THAN 85% (Actual : 94% aprx.)
04	FIRE RATING	183B

HARD PUNCH MARKING:

KANEX YEAR PT 35 BAR T -30°C/+60°C X XXXXXX 4 KG
SERIAL NO.



ITEM NO.	DESCRIPTION	MATERIAL	QTY.
15	EXTINGUISHING MEDIUM	POTASSIUM BI CARBONATE POWDER CONFIRMS TO IS 4308:2019	04
14	WALL MOUNTING BRACKET WITH SCREW	MS POWDER COATED	01
13	'C' CLIP	MS	01
12	SEAL	PP PLASTIC	01
11	BASE	HDPE	01
10	HOSE WITH NOZZLE	RUBBER BRAIDED EPDM HOSE WITH PVC NOZZLE (BURST PRESSURE ≥ 55 bar)	01
09	OUTLET SIPHON TUBE	ALUMINUM	01
08	INLET SIPHON TUBE	PVC / PLASTIC	01
07	CO2 GAS CARTRIDGE	120 GRAM AS PER IS:4947	01
06	SAFETY PIN HOLDER	RUBBER / SOFT PVC	01
05	SAFETY PIN	SS	01
04	LEVER LOCK	PP PLASTIC	01
03	VALVE	BRASS - M74 X 2 FEMALE THREADED	01
02	NECK RING	MS PIPE - M74 X 2 MALE THREADED	01
01	BODY	MS SHEET HAVING MAX. C=0.25%, P=0.05%, S=0.05% (CONFIRMS TO IS:513)	01

SYMBOL	REVISION DESCRIPTION	DATE	BY

	DATE	NAME
DRAWN	12/06/19	MEHUL
CHECK.		
APPR.		

TITLE : BC DRY POWDER POTASSIUM BI CARBONATE (CARTRIDGE PRESSURE) 4 KG FIRE EXTINGUISHER

GAD NO. : KFFPL/GAD/KFDRQ-4-P

KANEX
KANADIA FYR FYTER PVT. LTD.
(AN ISO 9001:2015 CERTIFIED COMPANY)
7-8 PARAS INDUSTRIAL ESTATE, NEAR GARIBSHAH PIR, SIHOR(364240), GUJ.

SCALE : NTS SHEET : 1 OF 1

A4 – 297 X 210

DO NOT SCALE DRAWING.

DRW. MUST NOT BE COPIED OR LEND W/O PERMISSION OF KANEX

ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.

IF IN DOUBT ASK.