

# GENERAL APPLICATION

**CERTIFICATION** GENERAL APPLICATION

**CLIENT NAME** Atlas Copco

**Risk Description** XATS - 800 Compressor

**Constructed from** Engine Bay

**Classes of Fire**  Class A  Class B  Class E  Class D  Class F

**STREAM (m)**

**GROSS DIMENSIONS (All in Meters)**

Length: 2.37 x Width: 1.68 x Height: 1.55 *Enter VOLUME* = Not Used m<sup>3</sup>

**Actual Leakage Measurement - m<sup>2</sup>** =

**Leakage Allowance without additional Agent** = 0.10 m<sup>2</sup>

**GROSS Volume used for Calculation** = 6.16 m<sup>3</sup>

**PRIMARY AGENT DISCHARGE** 673 g

**Secondary Agent Discharge** - g

Model	L2 (mm)	L3 (mm)	Stream Length (mm)	Effective Agent Qty	Concentration		Primary Quantity	Secondary Quantity
					Primary	Secondary		
FP-0020	0	100	300	20	-	-	-	-
FP-0040	0	100	1200	40	-	-	-	-
FP-0080	0	100	2000	80	-	-	-	-
FP-0100	0	100	1000	100	-	-	-	-
FP-0200	100	300	1500	200	-	-	-	-
FP-0500	200	500	2500	500	1,000	-	2	-
FP-1200	200	1200	3500	1,200	-	-	-	-
FP-2000	200	1200	3500	2,000	-	-	-	-
FP-3000	700	1700	4000	3,000	-	-	-	-
FP-5700	800	1800	8000	5,700	-	-	-	-

Total Concentration	1,000	-
Required Concentration	673	-
% Required Concentration	148%	

- Design Calculation has been Confirmed
- FirePro Units have suitable STREAM length for Risk Area Coverage
- Leakage compensation made in Primary Discharge
- Additional HOLD time Required for the risk

## Aust.Std Design Notes

**CALCULATION OF VOLUME :** Calculation is based on Gross Volume with NO deductions for any Objects that occupy volume within the protected space. This category covers fixed condensed aerosol extinguishing system units intended for total flooding applications. AS 4487 and AS5062.

Minimum Extinguishing Factors (mef) **84 X 1.3 = 109**

- L2 is the thermal clearance required where the temperature of the discharge is less than 200° C
- L3 is the thermal clearance required where the temperature of the discharge is less than 75° C

# APPROVED

Prepared By:

PM

Company

FSE