

Temp t (°C) - c	Spe- cific steam volume s (m ³ / kg) - d	Extinguishing agent quantity per volume unit of the protected room, W/V (kg/m ³) - b							
		Design concentration (% by volume) - e							
		7.0	7.9	8.4	8.5	8.7	9.0	9.5	10.5
5	0.1294	0.5816	0.6628	0.7086	0.7179	0.7364	0.7642	0.8112	0.9066
10	0.1320	0.5700	0.6497	0.6945	0.7036	0.7217	0.7490	0.7950	0.8885
15	0.1347	0.5589	0.6370	0.6810	0.6899	0.7077	0.7344	0.7796	0.8713
20	0.1373	0.5483	0.6249	0.6681	0.6768	0.6942	0.7205	0.7648	0.8547
25	0.1399	0.5382	0.6133	0.6557	0.6642	0.6813	0.7071	0.7505	0.8388
30	0.1425	0.5284	0.6021	0.6437	0.6521	0.6689	0.6943	0.7369	0.8236
35	0.1450	0.5190	0.5914	0.6323	0.6405	0.6570	0.6819	0.7238	0.8089
40	0.1476	0.5099	0.5811	0.6213	0.6293	0.6456	0.6701	0.7111	0.7948
45	0.1502	0.5012	0.5712	0.6106	0.6186	0.6345	0.6586	0.6990	0.7812
50	0.1527	0.4929	0.5616	0.6004	0.6082	0.6239	0.6476	0.6873	0.7681
55	0.1553	0.4847	0.5524	0.5906	0.5983	0.6137	0.6369	0.6760	0.7555
60	0.1578	0.4770	0.5435	0.5811	0.5886	0.6038	0.6267	0.6651	0.7434
65	0.1604	0.4694	0.5349	0.5719	0.5793	0.5943	0.6167	0.6546	0.7316
70	0.1629	0.4621	0.5267	0.5630	0.5704	0.5851	0.6072	0.6445	0.7203
75	0.1654	0.4550	0.5187	0.5545	0.5617	0.5762	0.5979	0.6347	0.7094
80	0.1679	0.4482	0.5109	0.5462	0.5533	0.5676	0.5803	0.6252	0.6988
85	0.1704	0.4416	0.5034	0.5382	0.5452	0.5593	0.5805	0.6161	0.6885

Information required for the design

- a - The manufacturer listing specifies the operating temperature range.
- b - W/V [extinguishing agent weight requirements (kg/m³)] = required extinguishing agent quantity per ft³ protected enclosure volume in pounds to achieve the specified concentration at the specified temperature
$$m = V/s * (C / (100 - C))$$
- c - t [temperature (°C)] = configuration temperature in the danger zone
- d - s [specific volume (m³/kg)] of HFC-227ea hot steam can be approximately calculated based on the following formula: $s = 0.1269 + 0.000513 * t$ where t is the temperature in °C
- e - C [concentration (%)] = volume concentration of HFC-227ea in the air at specified temperature

5.2 Extinguishing agent containers



Detailed information on the extinguishing agent containers is provided in the Appendix.

Extinguishing agent container size (nominal filling)	Valve type ¹⁾	Siphon tube nominal diameter	Connection to the distribution pipe-work ²⁾
< 80 l (200 lbs)	B0482 DN33	32 mm (1.26 in.)	DN 40 (1 1/2 in.)
> 80 l (200 lbs)	B0481 DN49	42 mm (1.65 in.)	DN 50 (2 in.)

¹⁾ - Type A = standard valve

Type B = valve with integrated electrical release device (special applications)

²⁾ - Nominal diameter of the hoses and adapters for the connection on the valve