







SAPPHIRE

Gaseous Fire Suppression Systems

Delivering 3M[™] Novec[™] 1230 Fire Protection Fluid

HYGOOD SAPPHIRE Fire Suppression System delivering 3M™ Novec™ 1230 Fire Protection Fluid is an environmentally friendly clean agent system, and the solution of choice for protecting people and high value assets.

HYGOOD SAPPHIRE systems provide a proven and reliable fast acting, clean agent solution that is safe for use in occupied spaces. The system is environmentally friendly with zero ozone depletion potential (ODP) and negligible global warming potential (GWP).

HYGOOD SAPPHIRE systems are specifically designed and developed based on independently witnessed fire tests. It is listed as "acceptable without restrictions" by the US Environmental Protection Agency's Significant New Alternatives Policy (SNAP).

Every HYGOOD SAPPHIRE installation carries a 20 year environmental warranty. For more information please contact your local approved HYGOOD distributor for full details.







Protecting our world

Almost every aspect of modern life has a direct or indirect effect on the environment. With increasing demand for awareness and action regarding environmental issues, HYGOOD SAPPHIRE systems help reduce environmental impact. Novec 1230 fluid has zero ozone depletion potential and a global warming potential of just one. The atmospheric lifetime is between three and five days making HYGOOD SAPPHIRE an ideal solution without compromising the environment.

Playing Safe

HYGOOD SAPPHIRE systems are ideal for use in occupied areas. Independent toxicity studies have established that the agent is very low in both acute and chronic toxicity with high safety margins between its normal use concentrations and the No Observable Adverse Effect Level (NOAEL).



Fast acting suppression

HYGOOD SAPPHIRE systems work fast and are designed to rapidly absorb heat to the point where combustion ceases. Once actuated, HYGOOD SAPPHIRE systems deliver the extinguishant within 10 seconds, stopping fires before they have the chance to spread. Most importantly when a fire is suppressed quickly, the result is less damage, lower refurbishment costs and reduced downtime.

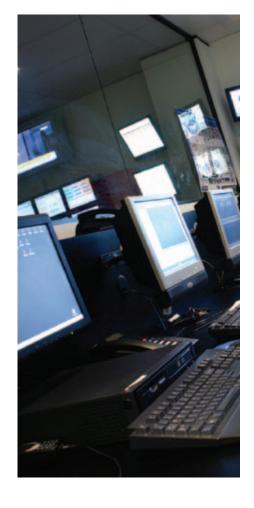
Compact low pressure technology

HYGOOD SAPPHIRE systems are compact and operate at both 25 and 42 bar, and have been proven to achieve homogeneous distribution of agent at these pressures complying with international standards and meeting the requirements of approval agencies globally.

System recharging

Filling and recharging HYGOOD SAPPHIRE systems is straight forward as the agent's high boiling point of 49°C means the agent can be transported in lightweight drums rather than pressurised containers.

Air freighting and other transport methods are possible for transporting unpressurised HYGOOD SAPPHIRE containers.



Agent comparison

Properties	Novec 1230	HFC 125	HFC 23	HFC-227ea
Ozone depletion potential (ODP)	0	0	0	0
Global warming potential	1	3,500	14,800	3,220
Atmospheric lifetime (years)	0.014	29	270	24.2
SNAP*	Yes	Yes	Yes	Yes



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- // Fast Acting
- // Easy to Refill
- // Compact Storage
- // Environmentally Friendly
- // Safe for People
- // International Approvals

Approvals

- // LPCB
- // VdS
- // UL
- // FM
- // VNIIPO
- // GOST
- // CNPP





Global strength. Local expertise. At your service.

Contacts

Company headquarters and branch office JIHLAVA

KLIKA-BP, a.s., o.z. Jihlava 8. března 4812/2a 586 01 Jihlava Czech Republic

tel.: +420 567 304 221 fax: +420 567 331 418 e-mail: klika@klika.cz

Branch office VYSOKÉ MÝTO

KLIKA-BP, a.s., o.z. Vysoké Mýto Dráby 850 566 01 Vysoké Mýto Czech Republic

tel.: +420 465 422 639 fax: +420 465 422 636

e-mail: lenka.karelova@klika.cz

KLIKA-BP, a.s. - registered office

V Jirchářích 148/4 110 00 Praha Czech Republic

IČ (ID No.): 25555316, DIČ (VAT No.): CZ25555316 The company is registered in the Commercial Register administered by the Municipal Court in Praha, section B, file 17988

KLIKA-BP Slovakia, s.r.o.

Tomášikova 30 821 01 Bratislava Slovak Republic

tel.: +421 258 104 000 fax: +421 258 104 001 e-mail: klika@klika.sk

IČO (ID No.): 43995888, DIČ (VAT No.): 2022582232 IČ DPH (VAT ID No.): SK2022582232

The company is registered in the Commercial Register administered by the District Court Bratislava I, section Sro, insert 50962/B



www.tfppemea.com Email: marcoms-emea@tyco-bspd.com