

## Gary Malinverno

---

**From:** Aaron McCarthy [amccarth@stanford.edu]  
**Sent:** Monday, June 28, 2010 4:09 PM  
**To:** Deepa Balgi; Jonathan James  
**Cc:** 'Mithen, Michael J.'; 'Buckley, Eoin'  
**Subject:** RE: Fire Extinguishers & Cabinets  
**Attachments:** RFI-018 Fire Extg Cabinets-KA.PDF; non-magnetic FE\_F-2004100.pdf; wmist\_sp.pdf

Hi Deepa and Jonathan,

I want to say thank you for the follow on this; I have been remiss in not responding to the string of emails regarding the extinguishers and cabinets. It's been way past due and if it has caused any issue please let me know and I will help in any way I can (with County Fire, etc.).

With that said, here are my belated comments:

1. Please replace the Vertical Duo w/ Larsen-Loc w/ Vertical Duo (no loc); locks generally not allowed by code unless vandalism is expected.
2. The SS-2712-RL w/ 2 ½" semi recessed is ok providing there is no lock, and it has vision glass
3. I recently noted that the Clean Guard is only rated @ 1A; minimum of 2A rating is required, we should go with the Amerex extinguisher. If this is an issue with County I will call to discuss with them, but I don't anticipate any issues.
4. The Amerex extinguisher is 7" deep same as the Clean Guard. Other dimensions are within the Cabinet specified.

Please don't hesitate to let me know if there are any questions or concerns with any of the comments raised.

Best Regards,  
Aaron

**AARON MCCARTHY** / Senior Fire Protection Engineer  
STANFORD FIRE MARSHAL'S OFFICE / T 650.725.3268 (8a-4p) C 650.444.6159  
F 650.724.3015 / [aaron.mccarthy@stanford.edu](mailto:aaron.mccarthy@stanford.edu) / <http://sufmo.stanford.edu>



---

**From:** Deepa Balgi [<mailto:Deepa.B@kornberg.com>]  
**Sent:** Monday, June 07, 2010 2:17 PM  
**To:** Aaron McCarthy  
**Cc:** Jonathan James; Mithen, Michael J.; Buckley, Eoin  
**Subject:** RE: Fire Extinguishers

Aaron,

Attached is the FEC we are specifying. Please let us know if this is acceptable.

Thanks,

**Deepa K. Balgi**  
KORNBERG ASSOCIATES | ARCHITECTS  
ph: 650.321.1295 fax: 650.321.1437 [www.kornberg.com](http://www.kornberg.com)

---

**From:** Aaron McCarthy [<mailto:amccarth@stanford.edu>]  
**Sent:** Thursday, April 08, 2010 10:31 AM  
**To:** Deepa Balgi

**Cc:** Jonathan James  
**Subject:** RE: Fire Extinguishers

We should have one in the magnet room or control room, but not needed in both. This would be a total of three for the suite (not counting the 10lb CO2 in the electric room)...correct?

Lastly, will the corridor/hallway extinguishers be in cabinets? If so, could someone pls forward a submittal for these to be sure we get the correct type and size...thanks.

Aaron

**AARON MCCARTHY** / Senior Fire Protection Engineer  
STANFORD FIRE MARSHAL'S OFFICE / T 650.725.3268 (8a-4p) C 650.444.  
F 650.724.3015 / [aaron.mccarthy@stanford.edu](mailto:aaron.mccarthy@stanford.edu) / [www.sufmo.stanford.edu](http://www.sufmo.stanford.edu)



---

**From:** Deepa Balgi [<mailto:Deepa.B@kornberg.com>]  
**Sent:** Thursday, April 08, 2010 10:14 AM  
**To:** [aaron.mccarthy@stanford.edu](mailto:aaron.mccarthy@stanford.edu)  
**Cc:** Jonathan James  
**Subject:** Fire Extinguishers

Aaron,

The FDG spec for the Fire Extinguishers indentifies a non-magnetic type fire extinguisher for the magnet room. We have 2 non-magnetic extinguishers in the suite but not in the magnet room itself. Do we need to find a location for one in the magnet room as well?

**Deepa K. Balgi**  
KORNBERG ASSOCIATES | ARCHITECTS  
ph: 650.321.1295 fax: 650.321.1437 [www.kornberg.com](http://www.kornberg.com)

# CLEANGUARD® FE13NM NON-MAGNETIC CLEAN AGENT HAND PORTABLE EXTINGUISHER

Data/Specifications

ANSUL

## FEATURES

- Economically priced
- Meets or exceeds requirements of ANSI/UL 2129 and 711
- Simple operation and maintenance
- Rechargeable
- UL/ULC listed
- FAA approved
- Non-magnetic (tested to 3 tesla)
- No clean-up/no residue
- Safe for exposure to occupants
- Zero ozone depletion
- Safe for sensitive electronic equipment
- Six-year limited warranty from date of delivery to original end-user purchaser
- Sold and serviced through a network of independent distributors in every state and most foreign countries
- ▶ Temperature range is  $-40^{\circ}\text{F}$  to  $120^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $49^{\circ}\text{C}$ )

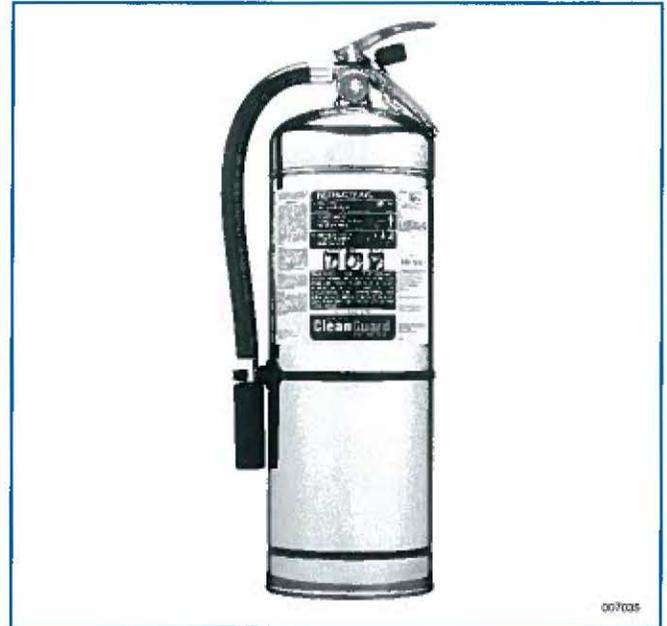
## APPLICATION

The ANSUL® CLEANGUARD® FE13NM fire extinguisher is designed to be the ideal fire extinguisher for hazard areas that require a reliable and safe non-magnetic fire extinguisher. The agent is proven to be electrically non-conductive (will not damage sensitive electrical equipment like computers), leaves no residue, and requires no clean-up. The agent has no ozone depletion potential and is lower in toxicity compared to comparable extinguishing agents.

The UL/ULC approved fire extinguisher is a completely non-magnetic stainless steel shell and non-magnetic valve, hose and nozzle. The unit was tested by Magnetic Resonance Safety Testing Services and shown to be non-magnetic to 3.0 tesla. The extinguisher can safely be mounted within the MRI room.

## DESCRIPTION

- ▶ 1. Extinguisher shells are 100% factory pressure tested in excess of 300 psi (20.7 bar)
- 2. Easy grip extinguisher handles designed for maximum portability, allowing operators to fight fires without having to remove work gloves.
- 3. CLEANGUARD extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
- 4. Ring pins with retention chains are utilized and held in place by a visual inspection seal to help prevent accidental discharges.
- 5. One-piece mylar label with easy-to-read pictograms provides the user with step-to-step operating instructions and the hazard classes for which the extinguisher was designed. Label also contains useful recharge, maintenance, inspection, operating temperature, HMIS and model information. (Optional multilingual nameplates are also available.)
- 6. Large, easy-to-scan bar coded model and serial numbers simplify inspection and maintenance record keeping.



7. Valve subassemblies are 100% tested for functionality before final assembly.
8. CLEANGUARD extinguishers are filled at the factory to precise tolerances.
9. Pressurized and 100% leak tested utilizing mass spectrometry technology.
10. CLEANGUARD extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons. Designed and field tested to help assure your extinguishers arrive undamaged and ready for operation.
11. As a final quality control step, CLEANGUARD extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.

## AGENT

- ▶ Dupont FE-36 agent is a colorless, odorless, electrically non-conductive "clean" agent which discharges as a liquid and flashes to a gas, providing an increased effective firefighting range. FE-36 will not cause thermal shock or damage to delicate electronic equipment.
- ▶ Dupont FE-36 has been accepted by the EPA for commercial, industrial, and military use under the EPS's SNAP program.

## LISTINGS

CLEANGUARD FE13NM extinguisher is UL/ULC listed.

## ORDERING INFORMATION

For fire protection assistance, see your nearest authorized ANSUL distributor or contact your ANSUL sales representative.

## SPECIFICATIONS

Model	FE13NM
Ext. Part No.	432893 (UL) 433214 (ULC)
▶ Agent Capacity (Dupont FE-36)	13.25 lb. (6 kg)
Charged Weight	20 lb. (9.1 kg)
Discharge Time	13.5 seconds
Agent Flow Rate	1.12 lb./sec. (.51 kg/sec.)
UL/ULC Rating	1-A:10-B:C
Effective Range	14-16 ft. (4.3-4.9 m)
Dimensions	Height 25 1/2 in. (64.8 cm) Width 9 in. (22.9 cm) Depth 7 in. 17.8 cm)
Fire Suppression Capability	
UL Panel (Class A)	8 ft. x 8 ft. (2.4 m x 2.4 m)
Novice Operator* (Class B)	10 sq. ft. (.93 sq. m)
Experiences Operator (Class D)	25 sq. ft. (2.3 sq. m)

\*Underwriters' Laboratories classifies a "novice operator" as one who has little or no experience in operating a fire extinguisher.

ANSUL and CLEANGUARD are trademarks of Ansul Incorporated or its affiliates.

FE-36 is a trademark of Dupont.



Tyco Safety Products  
Marinette, WI 54143-2542

715-735-7411  
[www.ansul.com](http://www.ansul.com)

©2005 Ansul Incorporated  
Form No. F-2004100-3



# Water Mist

## EXCLUSIVO DE AMEREX!

Manufacturado y Probado por los  
Estandares ANSI/UL  
AMEREX es una Firma Registrada por  
ISO 9001-2000

### AMISTOSO AL MEDIO AMBIENTE

- ★ No ODP (Potencial de Depreciación de la capa de el Ozono (Ozone layer))
- ★ No tiene restricciones ninguna de EPA (Enviromental Protection Agency)
- ★ No ocasiona problemas de calentamiento global
- ★ Construcción no magnética

### LIMPIO

- ★ No es toxico
- ★ No ocasiona ningún problema respiratorio
- ★ Agente extintor de agua des-ionizada
- ★ Cilindro exclusivo soldado y libre de abolladuras
- ★ Acabado de Pintura blanca – antiséptico (fácil de limpiar por fuera y por dentro)
- ★ No deja residuos polvorosos

### AMISTOSO AL USUARIO

- ★ La varilla provee seguridad al operador
- ★ Máxima visibilidad durante la descarga
- ★ No provoca conductividad de electricidad al operador
- ★ No produce choque térmico ni estático
- ★ Mínimo entrenamiento necesario – muy fácil de usar
- ★ El agente mas barato en el mercado
- ★ Tiene etiquetas con Código de barras

(Rango de Temperatura -40° F a 120° F)

SPECIFICATIONS	WATER MIST	
	Hose and Wand	Hose and Wand
Application		
Agent	DE-IONIZED WATER	
Model Number	B270	B272
U/L Rating	2A:C	2A:C
Capacity (gals.)	1.8	2.5
Shipping Wt. (lbs.) (Empty)	7	8
Extinguisher Height (in.)	18½	24½
Height with Hose & Wand [Installed in Clips] (in.)	24½	27½
Width with Hose & Wand [Installed in Clips] (in.)	11	11
Depth (Diam. - in.)	7	7
Range (ft.)	10-12	10 - 12
Discharge Time (sec.)	72	80
Standard Bracket	Wall	Wall

## ROCIO DE AGUA

ALAMACENADOS PRESURADIZADOS



MODELO  
B270

MODELO  
B272

## No-Magnetizado



APROBADO POR UL 711  
PARA FUEGO CLASE C

El extintor de **ROCIO DE AGUA** o **WATER MIST** es lo último inventado para fuegos de Clase A especialmente donde existan riesgos potenciales de Clase C. La Neblina fina de la boquilla provee seguridad contra choque eléctrico, aumenta las características de enfriamiento y mojado de el agente y reduce la dispersión de los materiales incendiados. Sin temor alguno a equivocarnos, es el mejor extintor para hospitales, bibliotecas, bancos y oficinas con libros y documentos valiosos, instalaciones de telecomunicaciones y "cuartos limpios" de instalaciones y manufactura, etc., Los extintores de Rocio de Agua (Water Mist) de AMEREX son mucho más fáciles de usar, menos costosos de mantener y dar servicio que muchas de las alternativas ofrecidas por el Halón.

**OPCIONAL TENEMOS EL PASADOR DE HALARY EL SOPORTADOR NO-MAGNETICO DISPONIBLES PARA APLICACIONES NO-MAGNETICAS**

PN: 06901 (Pasador)

PN: 14315 (Ajustador de Pared)

LISTADO BAJO UL. – 6 AÑOS DE GARANTIA



# Water Mist

An Amerex Exclusive!

Manufactured and Tested to ANSI/UL Standards  
ISO-9001:2000 / ISO-14001:2004 Certified  
**UL LISTED**

## RUGGED

- ★ Painted Stainless Steel Cylinders
- ★ All Metal Valve Construction
- ★ Exclusive crevice free, butt welded cylinder

## ENVIRONMENTALLY FRIENDLY

- ★ No O.D.P. (Ozone Depletion Potential)
- ★ No EPA phase out or restrictions
- ★ No global warming concerns
- ★ Non magnetic construction tested by an independent agency for use in MRI facilities

## CLEAN

- ★ Non-toxic
- ★ Causes no respiratory problems
- ★ De-ionized water extinguishing agent (sold separately)
- ★ Antiseptic white paint finish (easy to clean)
- ★ No powder residue

## USER FRIENDLY

- ★ Wand provides greatest operator safety
- ★ Maximum visibility during discharge
- ★ No electrical conductivity back to the operator
- ★ No thermal or static shock
- ★ Minimal training - simplest to use
- ★ Most economical agent available
- ★ Bar Coded and Bi-lingual Labels

(Temperature Range +40°F to 120°F)

SPECIFICATIONS	WATER MIST	
	Hose and Wand	Hose and Wand
Application	Hose and Wand	
Agent	DE-IONIZED WATER	
Model Number	B270NM	B272NM
UL Rating	2A:C	2A:C
Capacity (gals.)	1.8	2.5
Shipping Wt. (lbs.) (Empty)	7	8
Extinguisher Height (in.)	18½	24½
Height with Hose & Wand [Installed in Clips] (in.)	24½	27½
Width with Hose & Wand [Installed in Clips] (in.)	11	11
Depth (Diam. - in.)	7	7
Range (ft.)	10-12	10 - 12
Discharge Time (sec.)	72	80
Standard Bracket	NM Wall	NM Wall

## Stored Pressure



B270NM

B272NM

## NON-MAGNETIC



Tested to ANSI/UL 711  
for Class C Listing

**WATER MIST** is the ultimate extinguisher for Class A fires and where a potential Class C (electrical) hazard exists. The fine spray from the unique misting nozzle provides safety from electrical shock, greatly enhances the cooling and soaking characteristics of the agent and reduces scattering of burning materials. The Amerex Water Mist extinguishers contain de-ionized water making them the best extinguishers for protection of hospital environments, valuable books and documents, telecommunication facilities and "clean room" manufacturing facilities. The Amerex Water Mist extinguishers are easy to use, maintain, and service.

**5 YEAR WARRANTY**