



# ITT

Lowara

## Fire fighting booster sets according to EN12845 GEN Series



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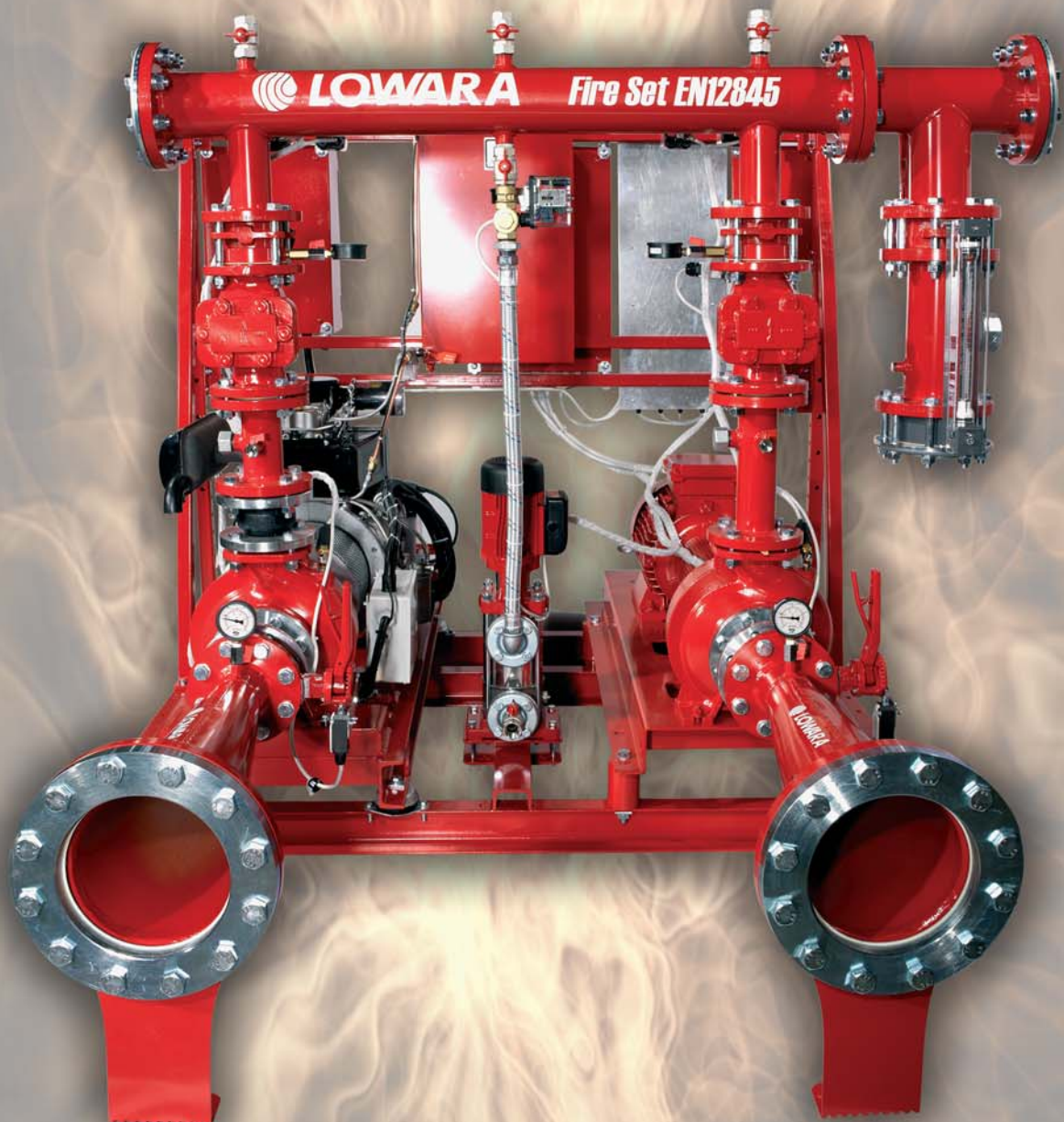
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## **FIRE FIGHTING BOOSTER SETS ACCORDING TO EN12845**

This Product Line has been specifically designed for the Fire Fighting systems according to the European Standard EN 12845 (fixed fire fighting systems – automatic sprinkler systems – design, installation and maintenance).

Each Fire Set is fitted with Lowara pumps.



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## VERSIONS AVAILABLE



### FIRE FIGHTING BOOSTER SETS WITH VERTICAL MULTISTAGE PUMPS SV SERIES

#### TECHNICAL DATA

Main pumps number	from 1 up to 2
Jockey pump	SV2/4 series
Flow up to	240 m <sup>3</sup> /h
Head up to	150 m
Power voltage	3 x 400V
Electric pump max power	37 kW
Voltage outside controls	24V
Protection grade electric panel	IP54



### FIRE FIGHTING BOOSTER SETS WITH HORIZONTAL PUMPS FH/SH SERIES

#### TECHNICAL DATA

Main pumps number	from 1 up to 2
Jockey pump	SV2/4/8 series
Flow up to	1300 m <sup>3</sup> /h
Head up to	100 m
Power voltage	3 x 400V
Electric pump max power	132 kW
Voltage outside controls	24V
Protection grade electric panel	IP54



### FIRE FIGHTING BOOSTER SETS WITH ELECTRIC PUMPS/DIESEL ENGINE PUMPS FH/SH SERIES

#### TECHNICAL DATA

Main electric pumps number	1
Diesel engine pump number	1
Jockey pump	SV2/4/8 series
Flow up to	1300 m <sup>3</sup> /h
Head up to	100 m
Electric pump power voltage	3 x 400V
Diesel engine pump power voltage	1 x 230V
Electric pump max power	132 kW
Diesel engine pump max power	145 kW
Voltage outside controls	12 - 24V
Protection grade electric panel	IP54

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Fuel tank (EN12845 10.9.6)

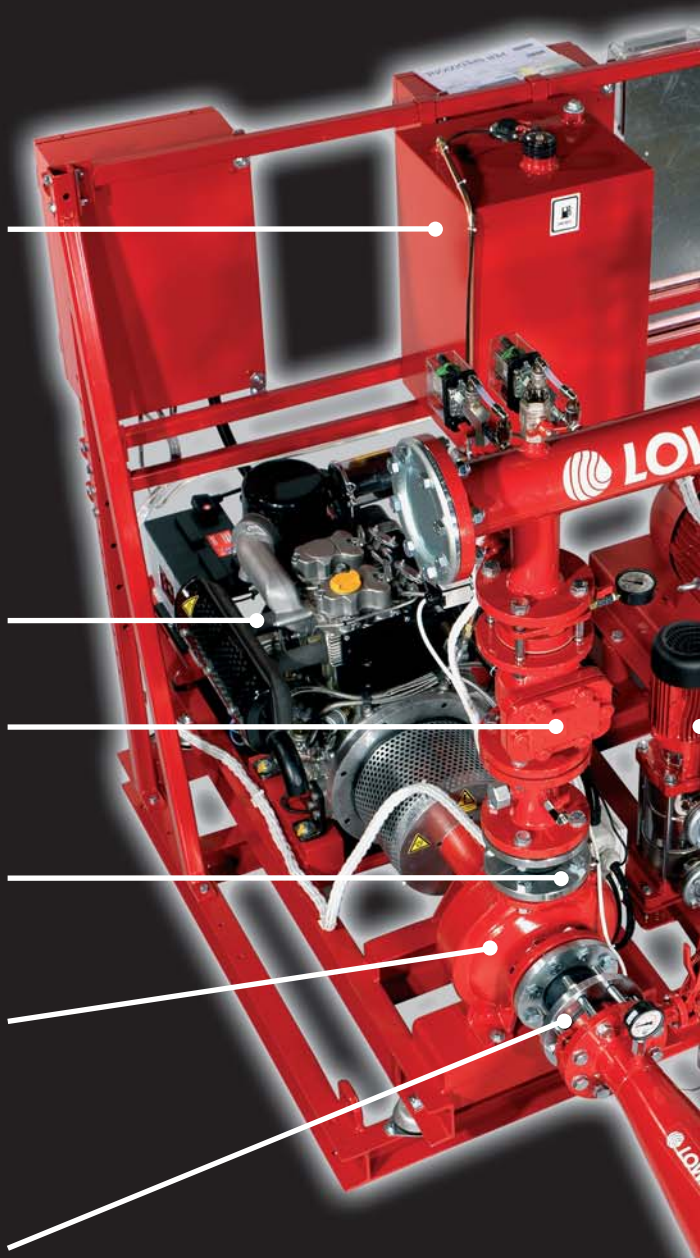
Diesel engine motor

Check valve

Flexible coupling discharge side

Pump series FH (EN12845 10.1)

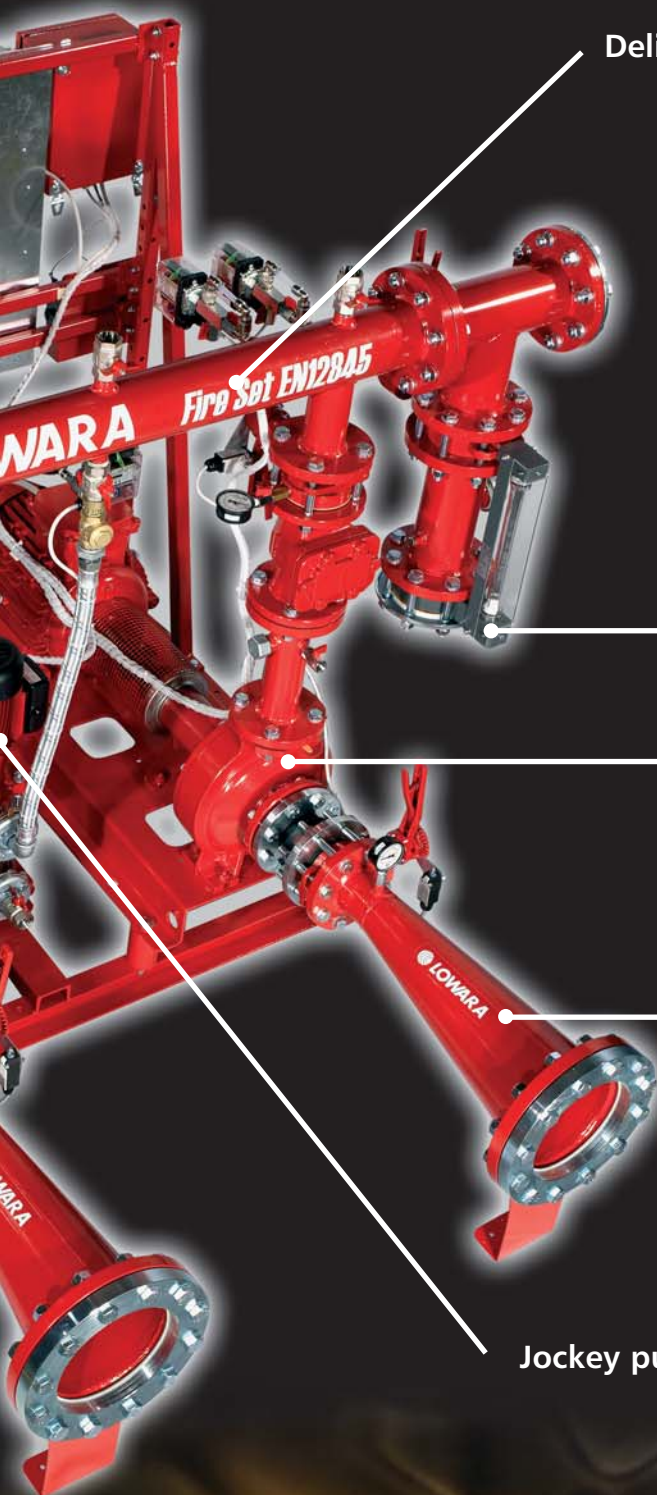
Flexible coupling suction side





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Delivery manifold

Flow meter

Electric pump FH series "back pull out" design  
(EN12845 10.1)

Suction taper (EN12845 10.6.2)

Jockey pump SV series

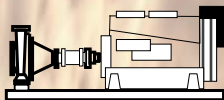
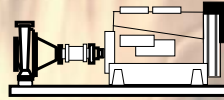
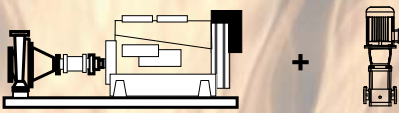
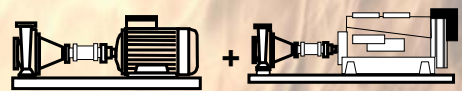
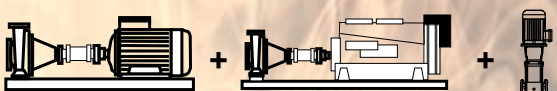




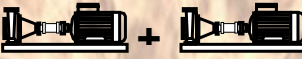
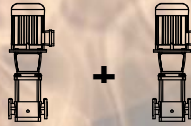
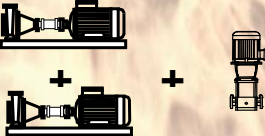

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## PRODUCT RANGE

Series	Description	Diesel engine and electric pump set	
DFHFE	Diesel engine pump		
GEN00D	Diesel engine pump set		
GEN01D	Diesel engine pump and jockey pump set		
GEN10D	Diesel engine pump and electric pump set		
GEN11D	Diesel engine pump, electric pump, jockey pump set		
Series	Description	Booster set with horizontal pumps FH/SH series	Booster set with vertical multistage pump SV series
GEN10	Electric pump set		
GEN11	Electric pump and jockey pump set		
GEN20	Two main electric pumps set		
GEN21	Two main electric pumps and jockey pump set		

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## WHAT IS THE STANDARD EN12845?

The European Standard EN12845 has been approved by CEN (European Committee for Standardization). CEN members are bound to comply with the CEN/CENELEC Internal regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. According to the CEN/CENELEC Internal Regulations, the national standard organizations of the following Countries are bound to implement this European Standard:

- Austria
- Belgium
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Iceland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Malta
- Netherlands
- Norway
- Poland
- Portugal
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- UK



### WHAT IS NEW?

This standard specifies requirements and gives recommendations for the design, installation and maintenance of fixed fire sprinkler systems in buildings and industrial plants. This standard includes also particular requirements for sprinkler systems, requirements which are requested for **life protection**.

This European Standard is based on the experience of good engineering rules from several European Countries and establishes several safety guarantees. The Standard EN12845 is the first step towards an attempt of European harmonization.

The Fire Set designed and assembled according to the European Standard EN12845 provides a **higher degree of reliability**.

This European Standard, shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards shall be withdrawn at the latest by September 2007.

The European Standard EN12845 has been translated in Italian language and has replaced the previous Standard UNI 9489 UNI 9490 (Fire Fighting equipment – Water supply for automatic fire fighting systems).

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# Lowara

## Headquarters

**LOWARA S.r.l.**  
**Via Dott. Lombardi, 14**  
**36075 Montebelluna Maggiore**  
**Vicenza - Italy**  
**Tel. (+39) 0444 707111**  
**Fax (+39) 0444 492166**  
**e-mail: lowara.mkt@itt.com - http://www.lowara.com**

<b>"RESIDENTIAL AND COMMERCIAL WATER GROUP - EMEA" SALES NETWORK</b>
--

## ITALY

**MILANO** 20090 Cusago - Viale Europa, 30  
 Tel. (+39) 02 90394188  
 Fax (+39) 0444 707176  
 e-mail: lowara.milano@itt.com

**BOLOGNA** 40132 - Via Marco Emilio Lepido, 178  
 Tel. (+39) 051 6415666  
 Fax (+39) 0444 707178  
 e-mail: lowara.bologna@itt.com

**VICENZA** 36061 Bassano del Grappa - Via Pigafetta, 6  
 Tel. (+39) 0424 566776 (R.A. 3 Linee)  
 Fax (+39) 0424 566773  
 e-mail: lowara.bassano@itt.com

**PADOVA** 35020 Albignasego - Via A. Volta, 56 - Zona Mandriola  
 Tel. (+39) 049 8801110  
 Fax (+39) 049 8801408  
 e-mail: lowara.bassano@itt.com

**ROMA** 00173 Via Frascineto, 8  
 Tel. (+39) 06 7235890 (2 linee)  
 Fax (+39) 0444 707180  
 e-mail: lowara.roma@itt.com

**CAGLIARI** 09122 - Via Dolcetta, 3  
 Tel. (+39) 070 287762 - 292192  
 Fax (+39) 0444 707179  
 e-mail: lowara.cagliari@itt.com

**CATANIA** 95027 S. Gregorio - Via XX Settembre, 75  
 Tel. (+39) 095 7123226 - 7123987  
 Fax (+39) 095 498902  
 e-mail: lowara.catania@itt.com



## EUROPE

**Pumpenfabrik ERNST VOGEL GmbH**  
 A-2000 STOCKERAU  
 Ernst Vogel-Straße 2  
 Tel. (+43) 02266 604 - Fax (+43) 02266 65311  
 e-mail: vogelpumpen.info@itt.com - http://www.vogel-pumpen.com

**LOWARA DEUTSCHLAND GMBH**  
 Biebigheimer Straße 12  
 D-63762 Großostheim  
 Tel. (+49) 0 60 26 9 43 - 0 - Fax (+49) 0 60 26 9 43 - 2 10  
 e-mail: lowarade.info@itt.com - http://www.lowara.de

**LOWARA FRANCE S.A.S.**  
 BP 57311  
 37073 Tours Cedex 2  
 Tel. (+33) 02 47 88 17 17 - Fax (+33) 02 47 88 17 00  
 e-mail: lowarafr.info@itt.com - http://www.lowara.fr

**LOWARA FRANCE SAS Agence Sud**  
 Z.I. La Sipière - BP 23  
 13730 Saint Victoret - F  
 Tel. (+33) 04 42 10 02 30 - Fax (+33) 04 42 10 43 75  
 http://www.lowara.fr

**LOWARA NEDERLAND B.V.**  
 Zandweistraat 22  
 4181 CG Waardenburg  
 Tel. (+31) 0418 655060 - Fax (+31) 0418 655061  
 e-mail: lowaranl.info@itt.com - http://www.lowara.nl

**ITT PORTUGAL, Unipessoal, Lda.**  
 Praça da Castanheira, 38  
 4475-019 Barca  
 Tel. (+351) 22 9478550 - Fax (+351) 22 9478570  
 e-mail: lowarapt.info@itt.com - http://www.lowara.pt

**ITT PORTUGAL, Unipessoal, Lda. Delegação**  
 Quinta da Fonte - Edifício D. Pedro I  
 2770-071 Paço de Arcos  
 Tel. (+351) 21 0001628 - Fax (+351) 21 0001675

**LOWARA UK LTD.**  
 Millwey Rise, Industrial Estate  
 Axminster - Devon EX13 5HU UK  
 Tel. (+44) 01297 630200 - Fax (+44) 01297 630270  
 e-mail: lowaraukenquiries@itt.com - http://www.lowara.co.uk

**LOWARA IRELAND LTD.**  
 59, Broomhill Drive - Tallaght Industrial Estate  
 Tallaght - DUBLIN 24  
 Tel. (+353) 01 4520266 - Fax (+353) 01 4520725  
 e-mail: lowara.ireland@itt.com - http://www.lowara.ie

**LOWARA VOGEL POLSKA Sp. z o.o.**  
 PL 57-100 Strzelin  
 ul. Kazimierza Wielkiego 5  
 Tel. (+48) 071 769 3900 - Fax (+48) 071 769 3909  
 e-mail: info.lowarapl@itt.com - http://www.lowara-vogel.pl

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