



# LOW NO<sub>x</sub> TWO STAGE LIGHT OIL BURNERS

▶ RL BLU SERIES

▶ RL 22 BLU 89/116 ÷ 261 kW

▶ RL 32 BLU 166/228 ÷ 356 kW



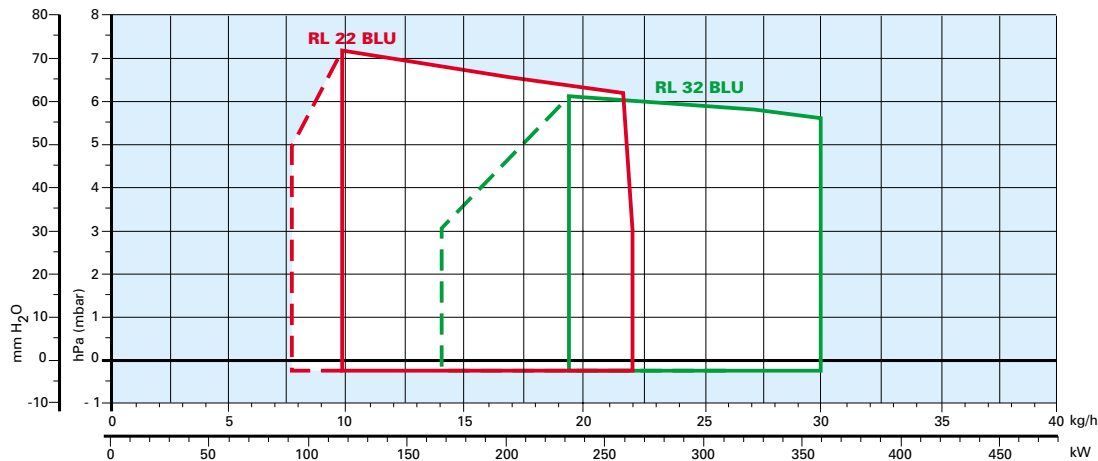
The RL BLU series of burners have been designed for use in hot or superheated water boilers, hot air or steam generators, diathermic oil boilers. The series includes two models with output ranging from 89 to 356 kW. A servomotor with three adjustable positions guarantees correct air output and air damper closing when the burner is turned off.

The burners are fitted with an electronic device STATUS PANEL, which supplies complete diagnostic: hour meter, ignition meter, identification of trouble shooting. Special care has been paid to

keeping overall dimensions compact, to easy servicing, to design and to noise emissions. The elevated performance of the fans and combustion head, guarantee flexibility of use and excellent working at all firing rates and low NO<sub>x</sub> emissions.

## FIRING RATES

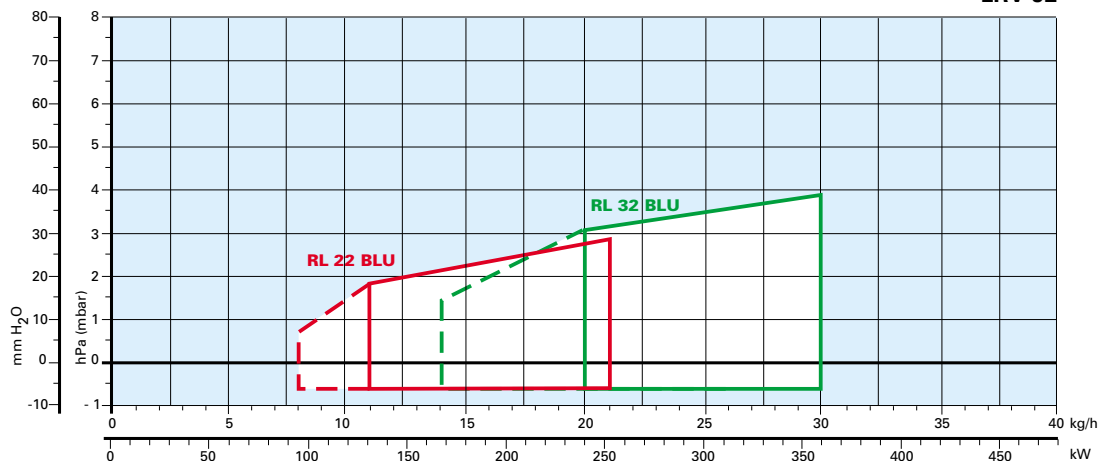
EN 267



Useful working field for choosing the burner  
 1<sup>st</sup> stage operation range

**Test conditions conforming to EN 267:**  
 Temperature: 20°C  
 Pressure: 1000 mbar  
 Altitude: 100 m a.s.l.

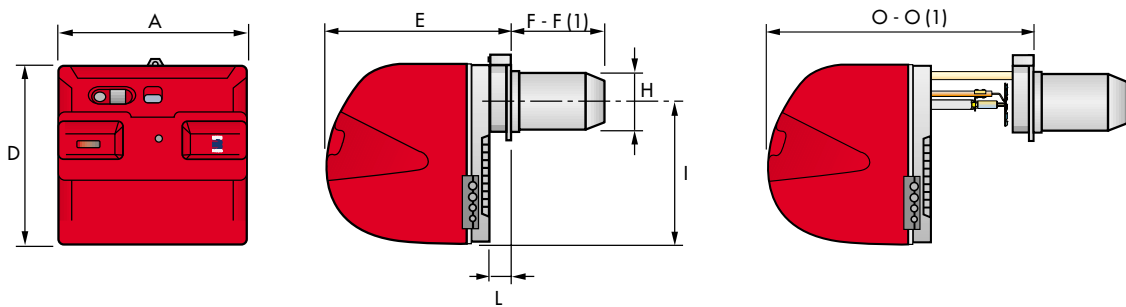
LRV 92



## RL BLU series - OVERALL DIMENSIONS (mm)

### BURNER

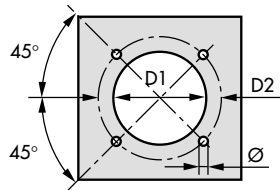
#### RL 22 BLU - RL 32 BLU



Model	A	D	E	F - F (1)	H	I	L	O - O (1)
▶ RL 22 BLU	476	474	468	197 - 276	140	352	52	604 - 739
▶ RL 32 BLU	476	474	468	217 - 293	140	352	52	604 - 739

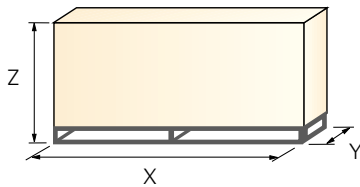
(1) Length with extended combustion head

### BURNER - BOILER MOUNTING FLANGE



Model	D1	D2	Ø
▶ RL 22 BLU	160	224	M8
▶ RL 32 BLU	160	224	M8

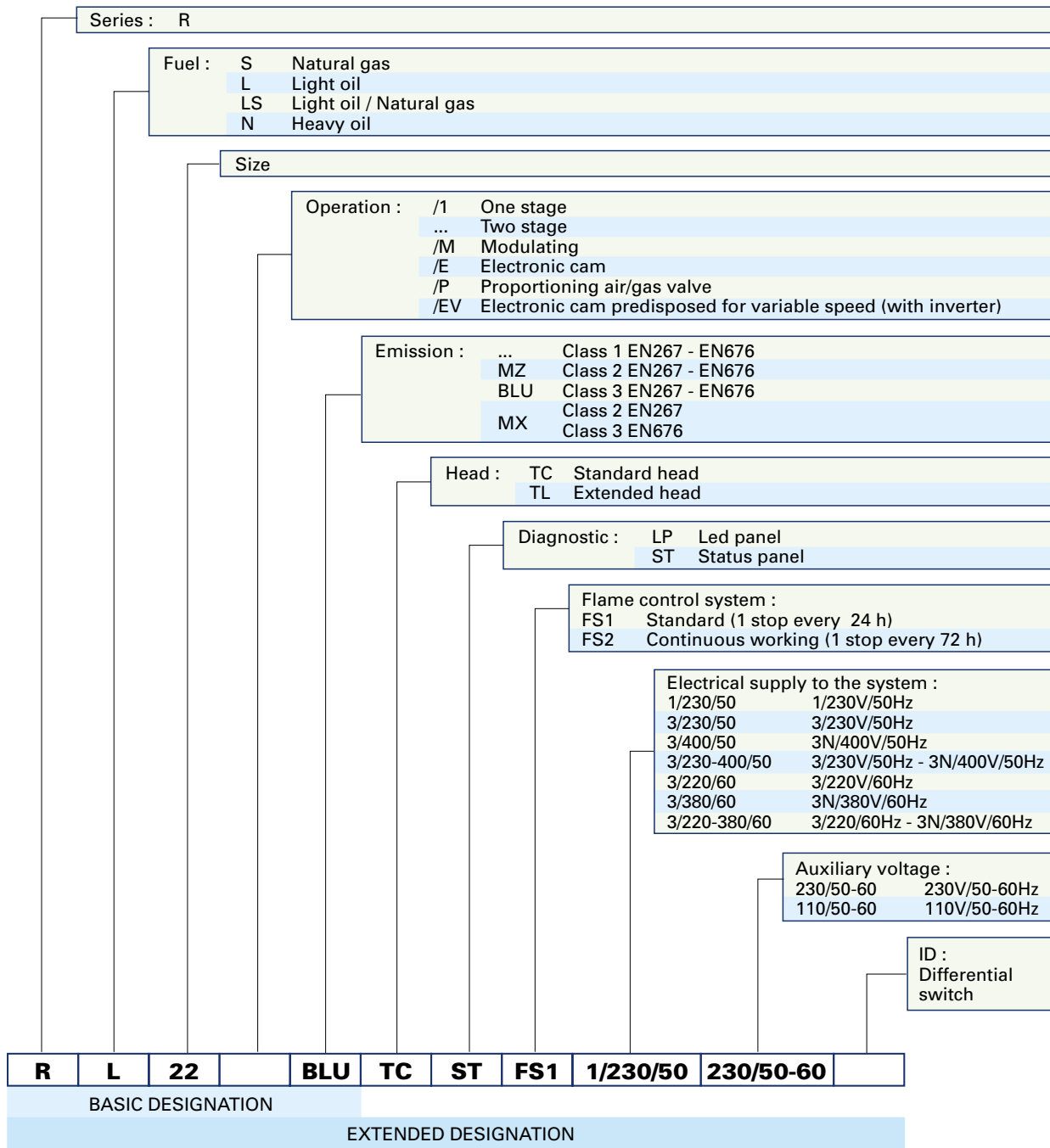
### PACKAGING



Model	X	Y	Z	kg
▶ RL 22 BLU	850	540	550	40
▶ RL 32 BLU	850	540	550	41

# RL BLU series - SPECIFICATION

## DESIGNATION OF SERIES



## RL BLU series - STATE OF SUPPLY

Monoblock forced draught LOW NOx oil burner with completely automatic two stage operation, made up of:

- Air suction circuit lined with sound-proofing material
- Fan with reverse curve blades
- Air damper for air setting, driven by the adjustable servomotor
- Low emission combustion head, that can be set on the basis of required output
- Gears pump for high pressure fuel supply
- Two oil valves fitted directly on to the pump
- Photocell for flame detection
- Flame control panel
- Electronic device to check all burners operational modes (status panel)
- Burner on/off switch
- Manual high/low flame switch
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 44 electric protection level.

### Standard equipment:

- 1 nozzle
- 2 flexible pipes for connection to the oil supply network
- 2 gaskets for the flexible pipes
- 2 nipples for connection to the pump
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- Wiring loom fittings for electrical connections
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

## RL BLU series - AVAILABLE BURNER MODELS

Code	Model	Heat output		Total electrical power (kW)	Certification	Note	Price
		(kW)	(kg/h)				
3895110	RL 22 BLU TC ST FS1 1/230/50 230/50-60	89/116-261	7,5/15-22	0,6	(1)		
3895210	RL 32 BLU TC ST FS1 1/230/50 230/50-60	166/228-356	14/21-30	0,6	(1)		

(1) BUWAL Nr 100 009 - CE 0036 0308/01.

Net calorific value: 11,8 kWh/kg - 10200 kcal/kg - Viscosity at 20°C: 4-6 mm<sup>2</sup>/s (cSt)

The burners of RL series are in according to 89/336 - 73/23 - 98/37 - 92/42 EEC Directive and EN 267 - LRV 92 Norm.

## RL BLU series - BURNER ACCESSORIES

### Nozzles

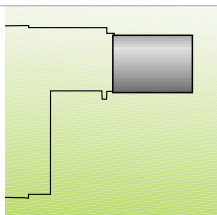


The nozzles of RL 22 and 32 BLU burners are chosen on the basis of the maximum output required from the application.

NOTE: each burner needs N° 1 nozzle.

GPH	Rated delivery [kg/h] at 8 bar	Rated delivery [kg/h] at 20 bar	Delavan 60° A Code	Price	Monarch 60° PLP Code	Price
2.25	7.4	11.9	3042134		3041132	
2.50	8.2	13.4	3042144		3041142	
3.00	9.9	16.1	3042148		3041152	
3.50	11.5	18.8	3042164		3041162	
4.00	13.2	21.5	3042174		3041172	
4.50	14.8	24.0	3042184		3041182	
5.00	16.5	26.8	3042194		3041192	
5.50	18.1	29.5	3042204		3041202	
6.00	19.8	32.2	3042214		3041212	

### Extended head kit



"Standard head" burners can be transformed into "extended head" versions, by using the special kit.

Burner	Standard head length (mm)	Extended head length (mm)	Kit code	Price
RL 22 BLU	197	276	3010204	
RL 32 BLU	217	293	3010205	

### Sound proofing box



If noise emission needs reducing even further, sound-proofing boxes are available.

Burner	Box type	Average noise reduction [dB(A)]	Box code	Price
RL 22 BLU - RL 32 BLU	C2	11	3000777	

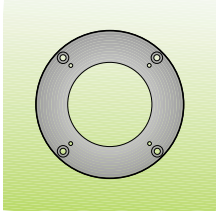
### Degasing unit



To solve problem of air in the oil sucked, two versions of degasing unit are available.

Burner	Filter	Filtering degree (µm)	Degasing unit code	Price
RL 22 BLU - RL 32 BLU	With filter	50 - 75	3010055	
RL 22 BLU - RL 32 BLU	Without filter	-	3010054	

## Connection flange kit



A kit is available for use where the burner opening on the boiler is of excessive diameter.

Burner	Kit code	Price
RL 22 BLU - RL 32 BLU	3010138	