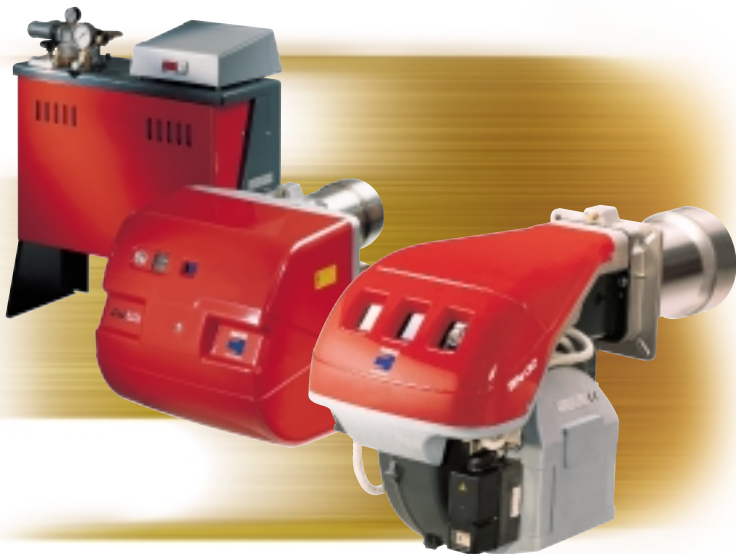




TWO STAGE HEAVY OIL BURNERS

► RN SERIES

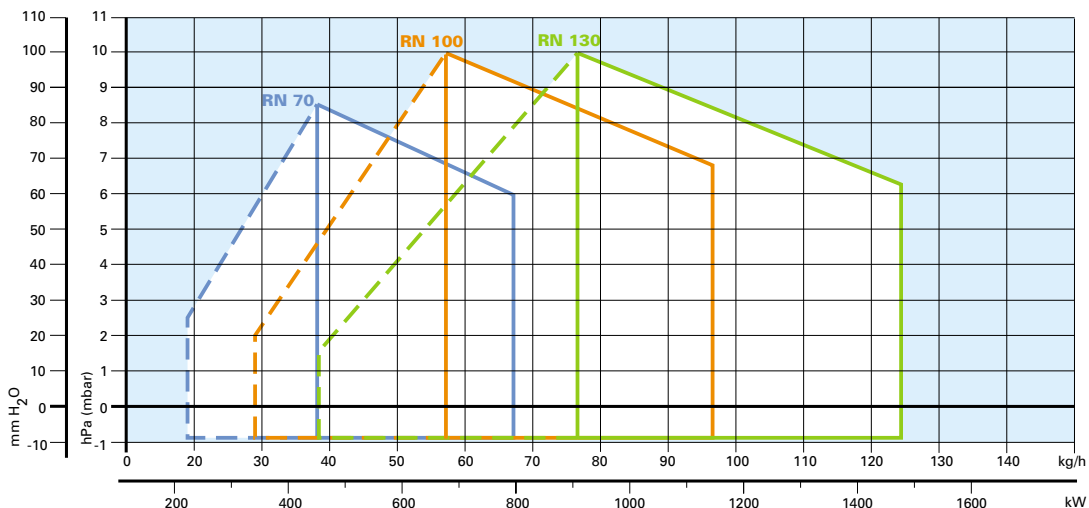
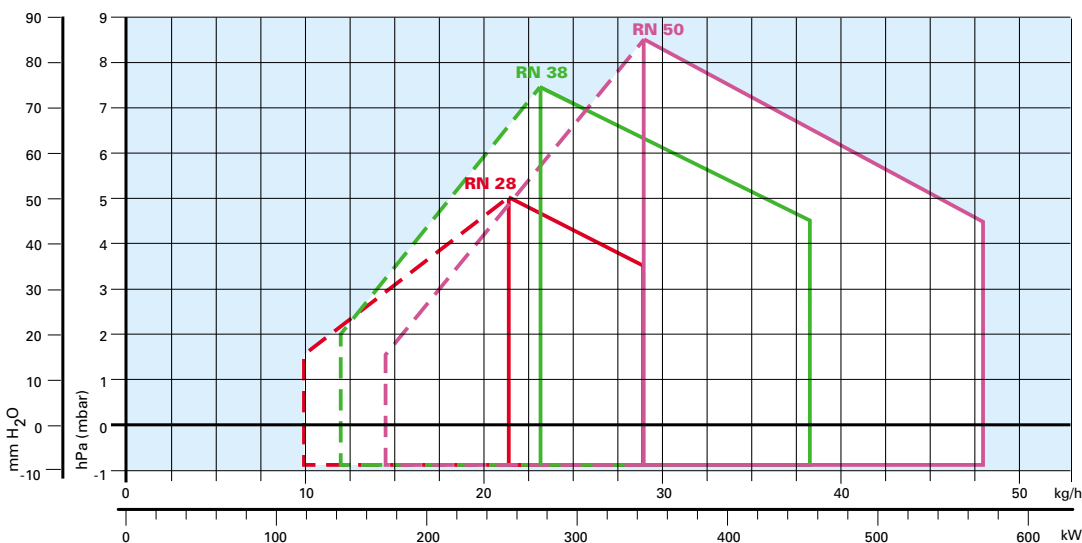
► RN 28	114/228 ÷	342 kW
► RN 38	136/273 ÷	456 kW
► RN 50	171/342 ÷	570 kW
► RN 70	228/456 ÷	798 kW
► RN 100	342/684 ÷	1140 kW
► RN 130	456/912 ÷	1481 kW



The RN series of burners covers a firing range from 114 to 1481 kW, and has been designed for use in hot or superheater water boilers, hot air or steam generators, diathermic oil boilers. Operation is "two stage"; the burners are fitted with an electronic device LED PANEL, which supplies Information about burner working. All necessary components of hydraulic heavy-oil circuit are assembled in a separate structure, called BAG, for easy and fast installation. Optimisation of sound emissions is guaranteed by the use of fans with forward curved blades and sound deadening material incorporated in the air suction circuit.

The elevated performance of the fans and combustion head, guarantee flexibility of use and excellent working at all firing rates. The exclusive design ensures reduced dimensions, simple use and maintenance. A wide range of accessories guarantees elevated working flexibility.

FIRING RATES

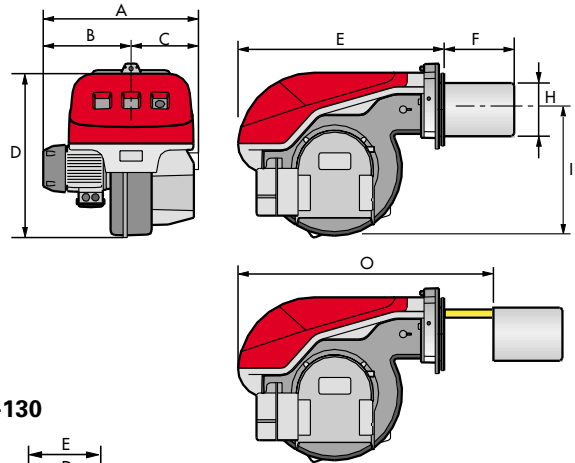
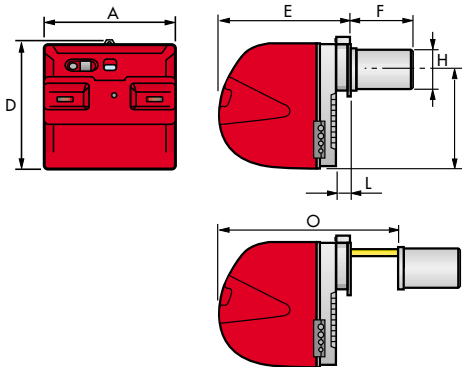


RN series - OVERALL DIMENSIONS (mm)

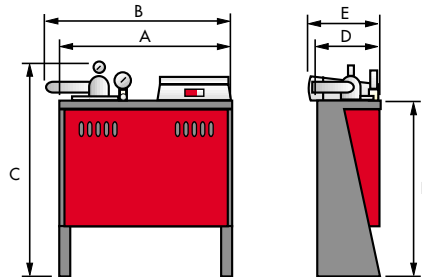
BURNER

RN 28 - 38 - 50

RN 70 - 100 - 130

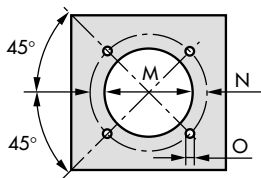


BAG 40 - 50 - 130



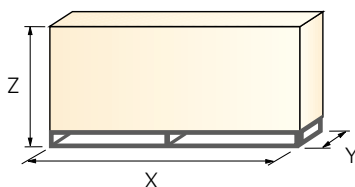
Model	A	B	C	D	E	F	H	I	L	O
▶ RN 28	476	-	-	474	468	265	166	352	52	730
▶ RN 38	476	-	-	474	468	265	166	352	52	730
▶ RN 50	476	-	-	474	468	265	166	352	52	730
▶ RN 70	511	296	215	555	680	310	189	430	-	951
▶ RN 100	527	312	215	555	680	330	200	430	-	951
▶ RN 130	553	338	215	555	680	330	220	430	-	951
▶ BAG 40	680	763	780	276	324	650	-	-	-	-
▶ BAG 50	680	763	780	276	324	650	-	-	-	-
▶ BAG 130	680	763	780	276	324	650	-	-	-	-

BURNER - BOILER MOUNTING FLANGE



Model	M	N	O
▶ RN 28 - 38 - 50	170	224	M8
▶ RN 70	200	275-325	M12
▶ RN 100	210	275-325	M12
▶ RN 130	230	275-325	M12

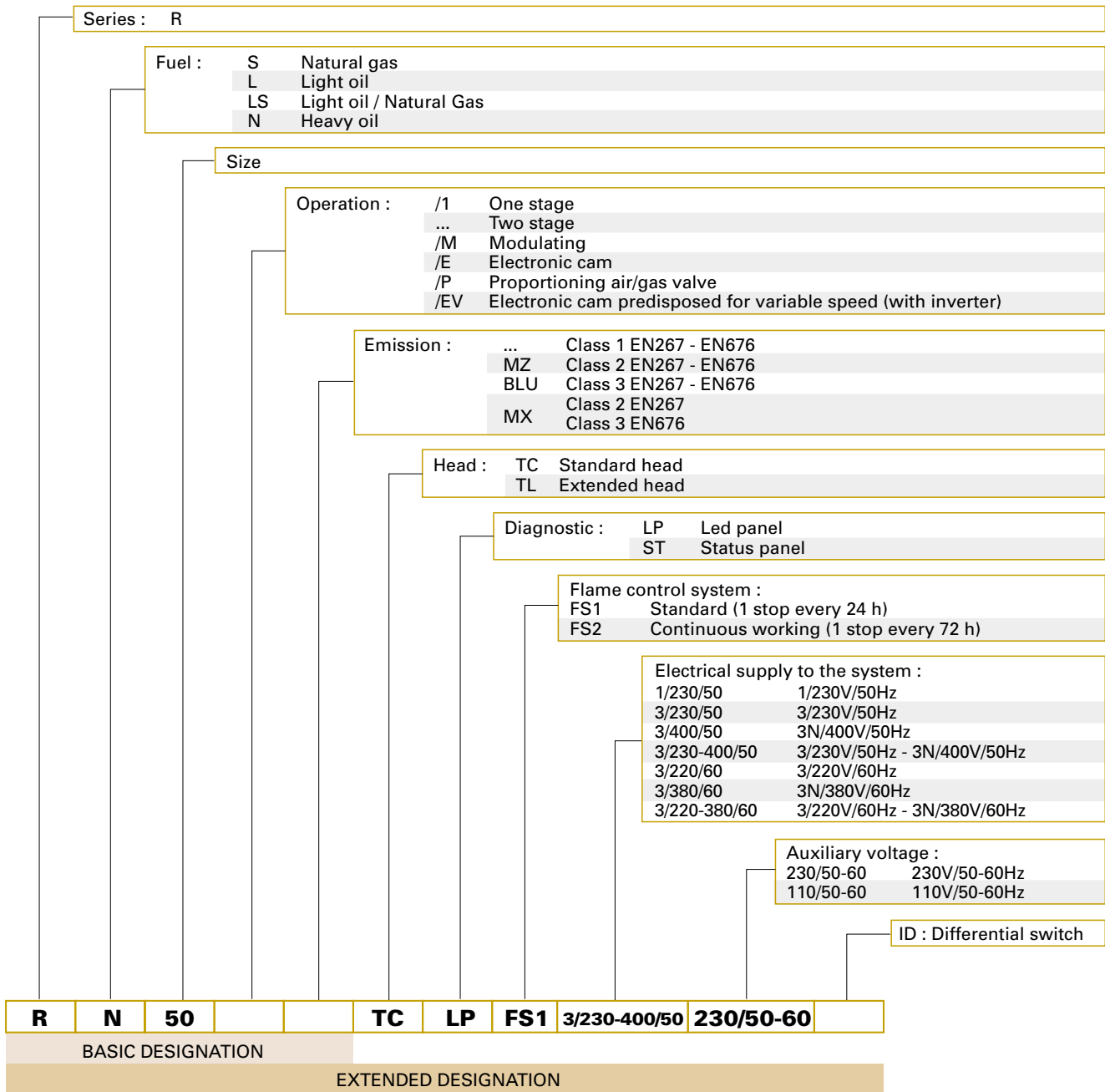
PACKAGING



Model	X	Y	Z	kg
▶ RN 28	1015	630	500	52
▶ RN 38 - 50	1015	630	500	57
▶ RN 70	1054	614	666	59
▶ RN 100	1054	614	666	62
▶ RN 130	1054	614	666	65
▶ BAG 40	824	859	394	62
▶ BAG 50	824	859	394	67
▶ BAG 130	824	859	394	69

RN series - SPECIFICATION

DESIGNATION OF SERIES



RN series - STATE OF SUPPLY

Monobloc forced draught heavy oil burner, two stage operation, made up of:

- Air suction circuit lined with sound-proofing material
- Fan with reverse curve blades
- Air damper for air setting controlled by a servomotor
- Combustion head, that can be set on the basis of required output
- Photocell for flame detection
- Flame control panel
- Electronic device to check all burners operational modes (Led Panel)
- Burner on/off switch
- Manual 1st and 2nd stage switch
- Plugs for electrical connections (RN 28-38-50)
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 44 electric protection level.

BAG

- Pressure gauge for fuel supply loop
- Atomising pressure gauge
- Self-controlling resistances for warming suction filter, delivery filter, valve and pump
- High and Low point thermostat
- High point thermostat with reset push-button
- Loop pressure control switch with burner operation enable (set at 1 bar)
- Pump
- Pump motor
- Pre-purge valve
- Degasing unit
- Valve for gas release from degasing unit
- Comb-filter at delivery
- Terminal strip
- Wiring looms
- Bag/Burner electrical connection socket
- Electronic thermostat
- Heating element Pt100
- Back pressure valve
- Comb-filter at pump suction
- Pre-heater.

Standard equipment:

- 2 flexible hoses for burner/bag connection (L = 1.3 m)
- 1 insulation for flexible hoses
- 2 nipples for flexible hoses
- 1 insulating screen
- 4 screws for fixing the burner flange to the boiler
- wiring looms for electrical connections (for RN 28-38-50 model)
- 1 tube for installing BAG on left (for RN 28-38-50 model)
- 2 nozzles
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

RN series - AVAILABLE BURNER MODELS

Code	Model	Heat output		Total electrical power kW	Certification	Note	Price
		(kW)	(kg/h)				
3433201	RN 28 TC LP FS1 3/230-400/50 230/50-60	114/228-342	10/20-30	3,83	-		
3433301	RN 38 TC LP FS1 3/230-400/50 230/50-60	136/273-456	12/24-40	5,1	-		
3433401	RN 50 TC LP FS1 3/230-400/50 230/50-60	171/342-570	15/30-50	5,5	-		
3434101	RN 70 TC LP FS1 3/230-400/50 230/50-60	228/456-798	20/40-70	9,8	-		
3434201	RN 100 TC LP FS1 3/230-400/50 230/50-60	342/684-1140	30/60-100	10,2	-		
3434301	RN 130 TC LP FS1 3/230-400/50 230/50-60	456/912-1481	40/80-130	11	-		
3891510	BAG 40			2,8	-	(1)	
3891511	BAG 50			4,2	-	(2)	
3891512	BAG 130			8,4	-	(3)	

(1) For RN 28 burner.


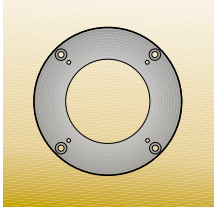
(2) For RN 38-50 burners.

(3) For RN 70-100-130 burners.

Net calorific value: 11,16 kWh/kg; 9.600 kcal/kg - Viscosity at 50°C: 150 mm²/s (cSt)(20°E).

The burners of RN series are in according to 89/336 - 73/23 - CEE Directive and EN 267 Norm.

RN series - BURNER ACCESSORIES

Nozzle	type F80 PL 45°					
 <p>The nozzles must be ordered separately. The following table shows the features and codes on the basis of the maximum required output.</p> <p>NOTE: each burner needs N° 2 nozzles.</p>	Burner	Rated delivery (kg/h) at 22,5 bar	GPH	Nozzle code	Price	
	RN 28	11,3	2	3043121		
	RN 28 - RN 38	12,7	2,25	3043131		
	RN 28 - RN 38	14,1	2,5	3043141		
	RN 38 - RN 50	16,9	3	3043151		
	RN 50 - RN 70	19,7	3,5	3043161		
	RN 50 - RN 70	22,5	4	3043171		
	RN 70	25,3	4,5	3043181		
	RN 70 - RN 100	28,1	5	3043191		
	RN 70 - RN 100	33,4	6	3043211		
	RN 100 - RN 130	39,4	7	3043231		
	RN 100 - RN 130	47,8	8,5	3043261		
	RN 130	53,4	9,5	3043271		
	RN 130	59	10,5	3043301		
		type F80 PL 60°				
		Burner	Rated delivery (kg/h) at 22,5 bar	GPH	Nozzle code	Price
RN 28	9,8	1,75	3043112			
RN 28	11,3	2	3043122			
RN 28 - RN 38	12,7	2,25	3043132			
RN 28 - RN 38	14,1	2,5	3043142			
RN 38 - RN 50	16,9	3	3043152			
RN 50 - RN 70	19,7	3,5	3043162			
RN 50 - RN 70	22,5	4	3043172			
RN 70	25,3	4,5	3043182			
RN 70 - RN 100	28,1	5	3043192			
RN 70 - RN 100	33,4	6	3043212			
RN 100 - RN 130	39,4	7	3043232			
RN 100 - RN 130	47,8	8,5	3043262			
RN 130	53,4	9,5	3043272			
RN 130	59	10,5	3043302			
	Connection flange kit					
 <p>A kit is available for use where the burner opening on the boiler is of excessive diameter.</p>	Burner		Kit code	Price		
	RN 28 - 38 - 50		3010138			