

Nova

Onestage oil burner

- Out power range from 15.4 kW up to 350 kW (from 1.3 Kg/h up to 29.48 Kg/h)
- All models of NOVA range comply with NOx Class 2 (<185 mg/kWh) according to the EN267 European Standard
- R models are supplied complete with a pre-heater to improve startup in cold locations
- Each component of burners has been designed to facilitate adjustment and maintenance
- Starting from model 12, the burners are available with two different combustion head lengths to facilitate compatibility with various combustion chambers
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector / Oil nozzle / 2 flexible pipes / Oil filter / Instructions manual

The NOVAseries complies with:

- 2006/42/EC Machinery Directive
- 2014/30/UEEMC Directive
- 2014/35/UE Low Voltage Directive
- EN267 European standard
- 2006/42/EC Efficiency
- 2011/65/EU RoHS2 Directive

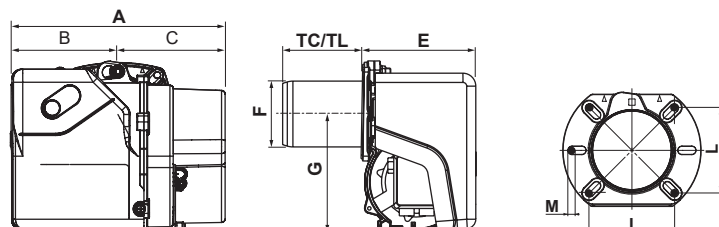
Burner code	Burner model
QUEM7EXD	NOVA 1
QUEM7LXD	NOVA 1 R
QUEM8EXD	NOVA 4
QUEM8LXD	NOVA 4 R
QUEM8EXD	NOVA 8
QUEM8H-XD	NOVA 8 L
QUEM8LXD	NOVA 8 R
QUEM8OXD	NOVA 8 R L
QUEM12EXD	NOVA 12
QUEM12H-XD	NOVA 12 L
QUEM15EXD	NOVA 15
QUEM15H-XD	NOVA 15 L
QUEM20EXD	NOVA 20
QUEM20H-XD	NOVA 20 L
QUEM25EXD	NOVA 25
QUEM25H-XD	NOVA 25 L
QUEM30EXD	NOVA 30
QUEM30H-XD	NOVA 30 L

Burner model	Type of flame tube (3)	NOx class (2)	Operation	Flow rate (Kg/h)		Output power (kW)		Electrical supply Phase V/Hz	Motor absorption W	Total absorption W	Nozzles supplied
				Min	Max	Min	Max				
NOVA 1	TC	2	Onestage	1.3	3.5	15.4	41	1/230/50	75	300	Danfoss 0.65 80°S
NOVA 1 R (1)	TC	2	Onestage	1.21	3.5	14.4	41	1/230/50	75	310	Danfoss 0.65 80°S
NOVA 4	TC	2	Onestage	1.7	5	20	59	1/230/50	75	300	Danfoss 0.75 60°S
NOVA 4 R (1)	TC	2	Onestage	1.7	5	20	59	1/230/50	75	310	Danfoss 0.75 60°S
NOVA 8	TC	2	Onestage	4	8.9	47	105	1/230/50	90	350	Danfoss 1.50 60°S
NOVA 8 L	TL	2	Onestage	4	8.9	47	105	1/230/50	90	350	Danfoss 1.50 60°S
NOVA 8 R (1)	TC	2	Onestage	4	7.9	47	105	1/230/50	90	360	Danfoss 1.50 60°S
NOVA 8 R L (1)	TL	2	Onestage	4	8.9	47	105	1/230/50	90	360	Danfoss 1.50 60°S
NOVA 12	TC	2	Onestage	5.1	11	60	130	1/230/50	90	350	Danfoss 2.50 60°S
NOVA 12 L	TL	2	Onestage	5.1	11	60	130	1/230/50	90	350	Danfoss 2.50 60°S
NOVA 15	TC	2	Onestage	6.2	16	73	190	1/230/50	130	400	Danfoss 3.00 60°S
NOVA 15 L	TL	2	Onestage	6.2	16	73	190	1/230/50	130	400	Danfoss 3.00 60°S
NOVA 20	TC	2	Onestage	7.3	21.1	86.4	250	1/230/50	150	400	Danfoss 3.50 60°S
NOVA 20 L	TL	2	Onestage	7.3	21	86.4	250	1/230/50	150	400	Danfoss 3.50 60°S
NOVA 25	TC	2	Onestage	12.63	25.27	150	300	1/230/50	200	450	Danfoss 5.00 60°S
NOVA 25 L	TL	2	Onestage	12.63	25.27	150	300	1/230/50	200	450	Danfoss 5.00 60°S
NOVA 30	TC	2	Onestage	12.63	29.48	150	350	1/230/50	200	500	Danfoss 6.00 60°S
NOVA 30 L	TL	2	Onestage	12.63	29.48	150	350	1/230/50	200	500	Danfoss 6.00 60°S

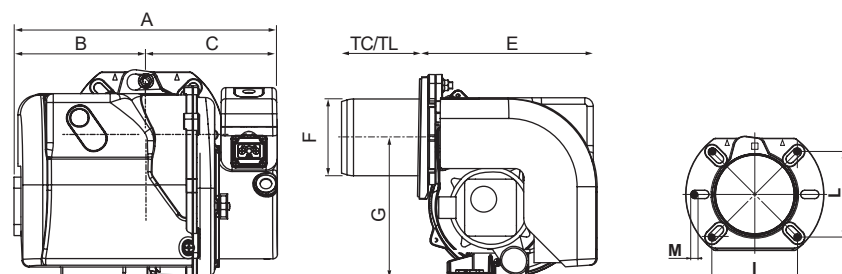
(1) R version with preheater - (2) NOx class 2 <185 mg/kWh in according with EN267 - (3) TC/TL - Short flame tube / Long flame tube

Dimensions (in mm)

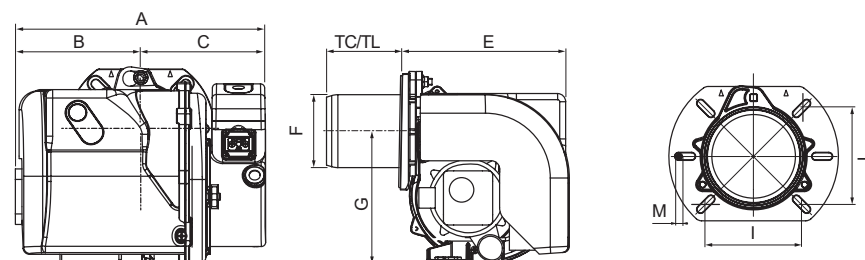
NOVA 1 | NOVA 1 R



NOVA 4 | NOVA 4 R | NOVA 8 | NOVA 8 L | NOVA 8 R | NOVA 8 R L | NOVA 12 | NOVA 12 L



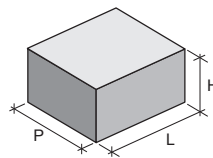
NOVA 15 | NOVA 15 L | NOVA 20 | NOVA 20 L | NOVA 25 | NOVA 25 L | NOVA 30 | NOVA 30 L



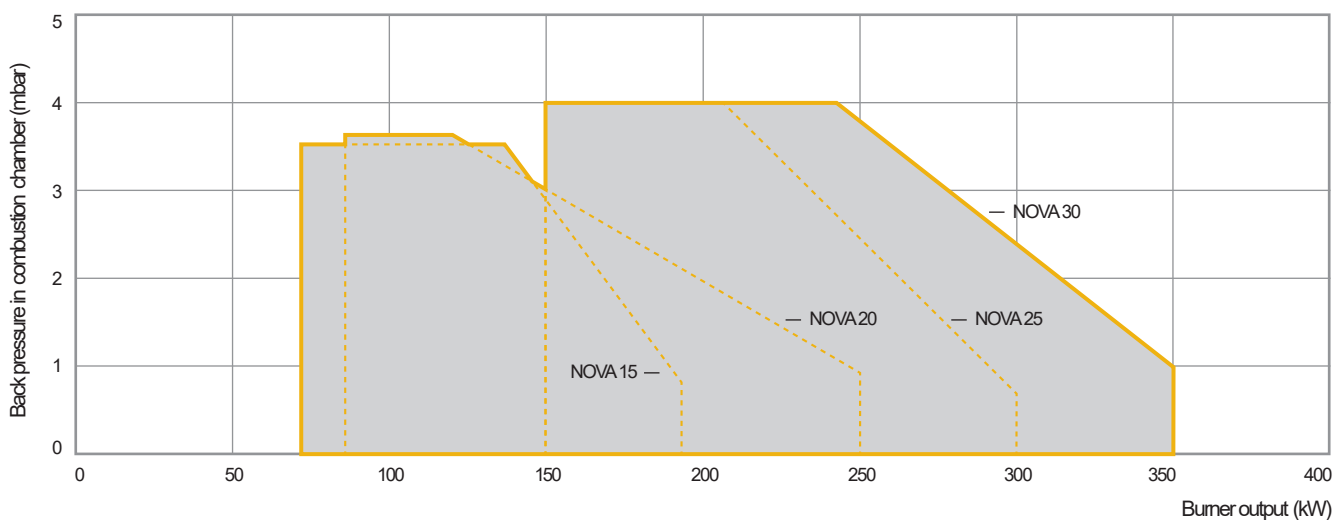
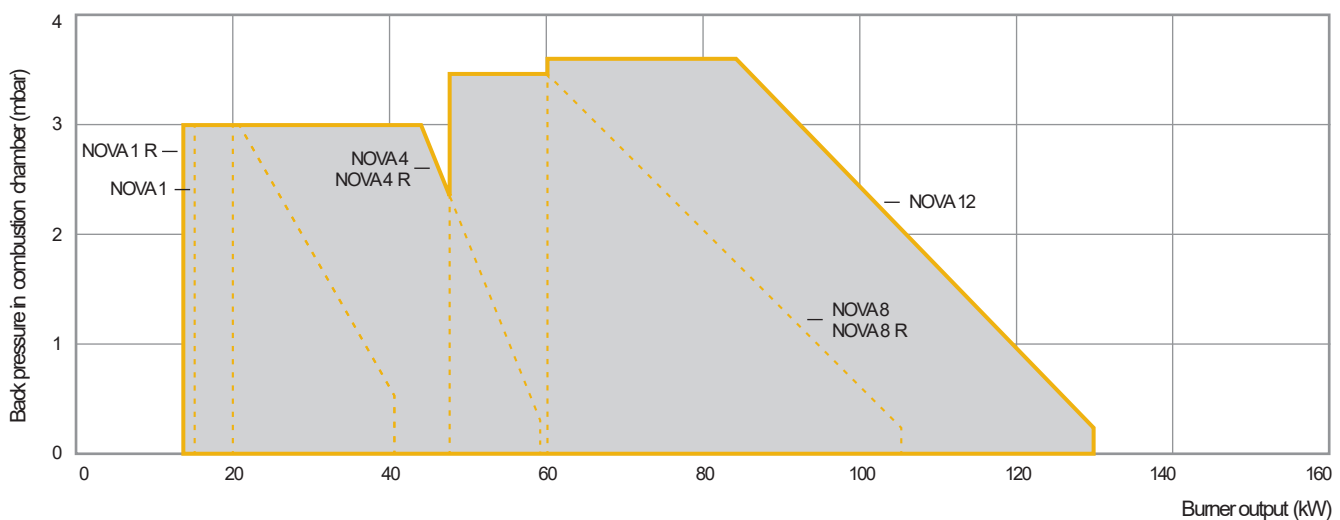
Model	Dimension (mm)										
	A	B	C	E	TC	TL	F	G	I	L	M
NOVA 1	288	143	145	153	90	40	89	160	92/107	92/107	M8
NOVA 1 R	288	143	145	153	90	40	89	160	92/107	92/107	M8
NOVA 4	297	149	148	204	90	45	89	160	90/107	90/107	M8
NOVA 4 R	297	149	148	204	90	45	89	160	90/107	90/107	M8
NOVA 8	303	155	148	204	90	185	89	89	100/120	100/120	M8
NOVA 8 L	303	155	148	204	90	185	89	89	100/120	100/120	M8
NOVA 8 R	303	155	148	204	90	185	89	89	100/120	100/120	M8
NOVA 8 R L	303	155	148	204	90	185	89	89	100/120	100/120	M8
NOVA 12	317	169	148	204	100	170	98	160	100/120	100/120	M8
NOVA 12 L	317	169	148	204	100	170	98	160	100/120	100/120	M8
NOVA 15	392	202	190	276	160	260	107	202	120/131	120/131	M8
NOVA 15 L	392	202	190	276	160	260	107	202	120/131	120/131	M8
NOVA 20	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA 20 L	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA 25	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA 25 L	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA 30	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA 30 L	392	202	190	276	160	260	125	201	120/131	120/131	M8

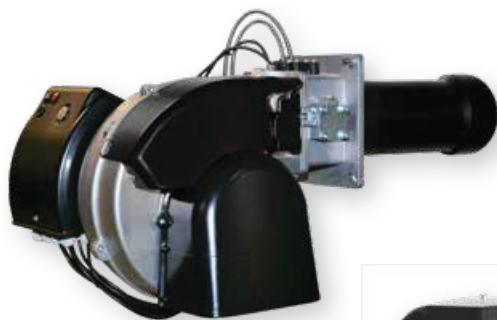
Packaging dimensions (in mm)

Model	Packaging dimension (mm)			Total weight (Kg)
	L	P	H	
NOVA 1	385	330	290	9.1
NOVA 1 R	385	330	290	9.1
NOVA 4	420	390	270	10
NOVA 4 R	420	390	270	10
NOVA 8	420	390	270	10.5
NOVA 8 L	420	390	270	10.5
NOVA 8 R	420	390	270	10.5
NOVA 8 RL	420	390	270	10.5
NOVA 12	420	390	270	11
NOVA 12 L	420	390	270	11
NOVA 15	610	430	320	17.3
NOVA 15 L	610	430	320	17.3
NOVA 20	610	430	320	17.3
NOVA 20 L	610	430	320	17.3
NOVA 25	610	430	320	17.3
NOVA 25 L	610	430	320	17.3
NOVA 30	610	430	320	17.3
NOVA 30 L	610	430	320	17.3



Working diagrams (working area are the same for TC/TL models)





Nova/ 2

Two stage oil burner

- Out power range from 60 kW up to 546 kW (from 5.1 Kg/h up to 46 Kg/h)
- All models of NOVA/2 range comply with NOx Class 2 (<185 mg/kWh) according to the EN267 European Standard
- Each component of burners has been designed to facilitate adjustment and maintenance
- Each model of burners are available with two different combustion head lengths to facilitate compatibility with various combustion chambers
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector / 4-pin connector / Oil nozzle / 2 flexible pipes / Oil filter / Instructions manual

The NOVA/2 series complies with:

- 2006/42/EC Machinery Directive
- 2014/30/UEEMC Directive
- 2014/35/UE Low Voltage Directive
- EN267 European standard
- 2006/42/EC Efficiency
- 2011/65/EU RoHS2 Directive

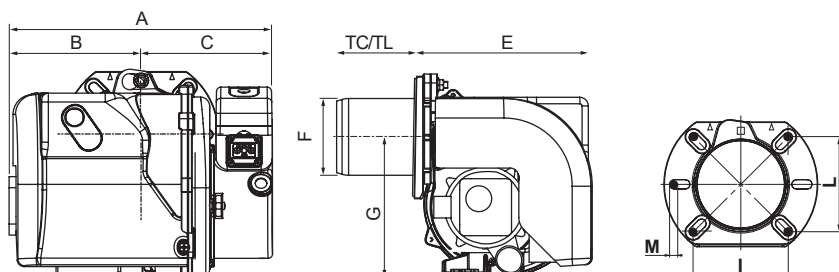
Burner code	Burner model
QUEBDEXD	NOVA12/2
QUEBDH-XD	NOVA12/2 L
QUEBFEXD	NOVA15/2
QUEBFH-XD	NOVA15/2 L
QUEBYEXD	NOVA20/2
QUEBYH-XD	NOVA20/2 L
QUEBGEXD	NOVA25/2
QUEBGH-XD	NOVA25/2 L
QUEBZEXD	NOVA30/2
QUEBZH-XD	NOVA30/2 L
QUEBIEXD	NOVA45/2
QUEBIH-XD	NOVA45/2 L

Burner model	Type of flame tube (3)	NOx class (2)	Operation	Flow rate (Kg/h)		Output power (kW)		Electrical supply Phase/V/Hz	Motor absorption W	Total absorption W	Nozzles supplied
				Min	Max	Min	Max				
NOVA12/2	TC	2	Two stage	5.05	10.96	60	130	1/230/50	90	350	Danfoss 1.75 60°S
NOVA12/2 L	TL	2	Two stage	5.05	10.96	60	130	1/230/50	90	350	Danfoss 1.75 60°S
NOVA15/2	TC	2	Two stage	6.2	16	73	190	1/230/50	130	400	Danfoss 2.50 60°S
NOVA15/2 L	TL	2	Two stage	6.2	16	73	190	1/230/50	130	400	Danfoss 2.50 60°S
NOVA20/2	TC	2	Two stage	7.3	21.06	86.4	250	1/230/50	150	400	Danfoss 3.00 60°S
NOVA20/2 L	TL	2	Two stage	7.3	21.06	86.4	250	1/230/50	150	400	Danfoss 3.00 60°S
NOVA25/2	TC	2	Two stage	12.63	25.27	150	300	1/230/50	200	450	Danfoss 4.00 60°S
NOVA25/2 L	TL	2	Two stage	12.63	25.27	150	300	1/230/50	200	450	Danfoss 4.00 60°S
NOVA30/2	TC	2	Two stage	12.63	29.48	150	350	1/230/50	200	500	Danfoss 5.00 60°S
NOVA30/2 L	TL	2	Two stage	12.63	29.48	150	350	1/230/50	200	500	Danfoss 5.00 60°S
NOVA45/2	TC	2	Two stage	17	46	202	546	3/230-400/50	550	800	Danfoss 5.50 60°S
NOVA45/2 L	TL	2	Two stage	17	46	202	546	3/230-400/50	550	800	Danfoss 5.50 60°S

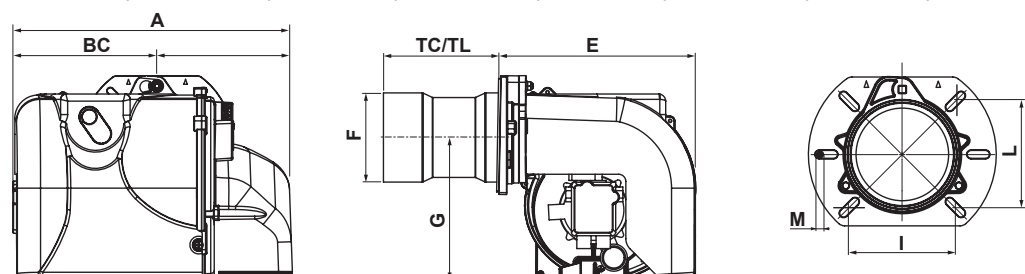
(2) NOx class 2 <185 mg/kWh in according with EN267 - (3) TC/TL - Short flame tube / Long flame tube

Dimensions (in mm)

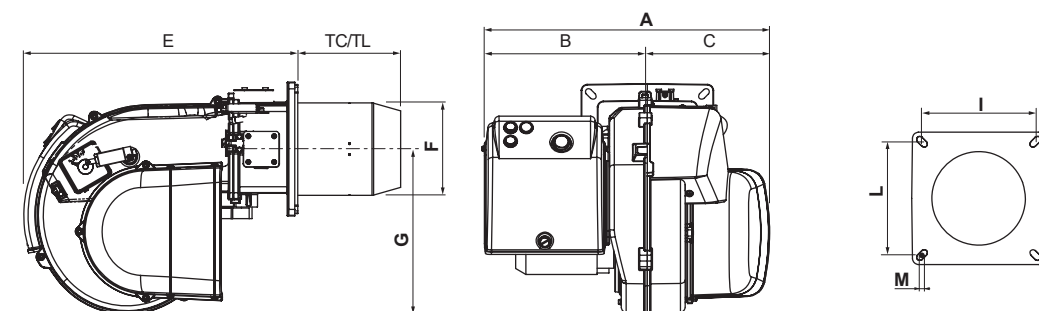
NOVA12/2 | NOVA12/2 L



NOVA15/2 | NOVA15/2 L | NOVA20/2 | NOVA20/2 L | NOVA25/2 | NOVA25/2 L | NOVA30/2 | NOVA30/2 L



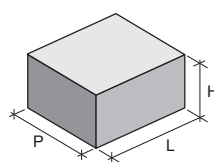
NOVA45/2 | NOVA45/2 L



Model	Dimension (mm)										
	A	B	C	E	TC	TL	F	G	I	L	M
NOVA12/2	317	169	148	204	100	170	98	160	100/120	100/120	M8
NOVA12/2 L	317	169	148	204	100	170	98	160	100/120	100/120	M8
NOVA15/2	392	202	190	276	160	260	107	201	120/131	120/131	M8
NOVA15/2 L	392	202	190	276	160	260	107	201	120/131	120/131	M8
NOVA20/2	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA20/2 L	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA25/2	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA25/2 L	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA30/2	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA30/2 L	392	202	190	276	160	260	125	201	120/131	120/131	M8
NOVA45/2	501	294	207	466	175	365	160	280	185/200	185/200	M8
NOVA45/2 L	501	294	207	466	175	365	160	280	185/200	185/200	M8

Packaging dimensions (in mm)

Model	Packaging dimension (mm)			Total weight (Kg)
	L	P	H	
NOVA12/2	420	390	270	11
NOVA12/2 L	420	390	270	11
NOVA15/2	610	430	320	17.3
NOVA15/2 L	610	430	320	17.3
NOVA20/2	610	430	320	17.3
NOVA20/2 L	610	430	320	17.3
NOVA25/2	610	430	320	17.3
NOVA25/2 L	610	430	320	17.3
NOVA30/2	610	430	320	17.3
NOVA30/2 L	610	430	320	17.3
NOVA45/2	610	430	320	17.3
NOVA45/2 L	610	430	320	17.3



Working diagrams (working area are the same for TC/TL models)

