

CAST AL CONTROLGEAR BOX

IP55

CG12

CONSTRUCTION:

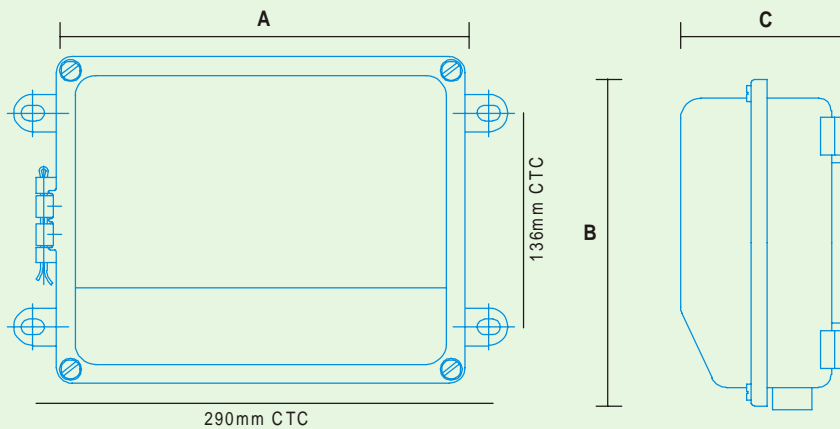
Body made of cast aluminium LM6 with stove enamel finish outside. The controlgear box is prewired with copper wound polyester ballast, power factor improvement capacitor, mains connector, rewirable fuse and 2 Nos. earthing terminals - one internal and one external. A synthetic rubber gasket makes the controlgear box weatherproof. An electronic ignitor is provided for use with HPSV & MH lamps.

CABLE ENTRY:

Is through 3 nos. 3/4" BSC (19mm) threaded brass nipple with rubber grommet. Mains connector is suitable for 4 sq mm incoming cable.

MOUNTING:

Four nos. fixing hole of 9mm dia provided with cast lugs facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm.)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
CG1225M(CA)	HPMV	1	250	240	1.3	260	208	106	4.5	2
CG1240M(CA)	HPMV	1	400	240	2.1	260	208	106	5.5	2
CG1225S(CA)	HPSV	1	250	240	1.3	260	208	106	5.8	2
CG1215S(CA)	HPSV	1	150	240	0.7	260	208	106	4.8	2
CG1240S(CA)	HPSV	1	400	240	2.0	260	208	106	7.4	2
CG1215MH(CA)	MH	1	150	240	0.7	260	208	106	4.8	2
CG1225MH(CA)	MH	1	250	240	1.3	260	208	106	6.3	2
CG1240MH(CA)	MH	1	400	240	2.0	260	208	106	7.4	2



CAST AL CONTROLGEAR BOX

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CG12

CONSTRUCTION:

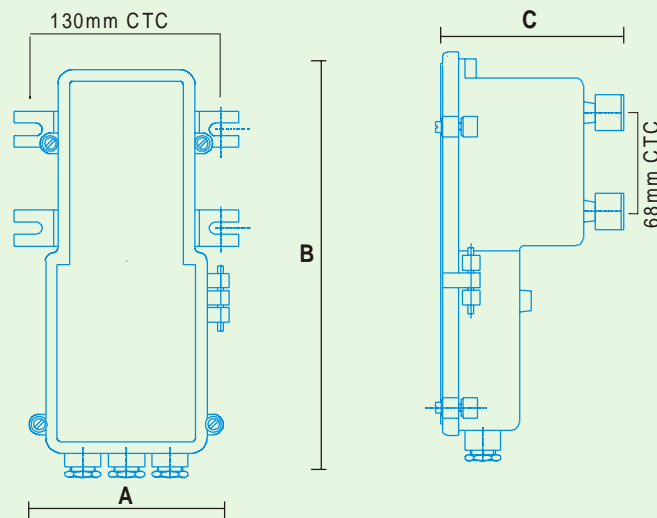
Body made of cast aluminium LM6 with stove enamel finish outside. The controlgear is prewired with copper wound polyester ballast, power factor improvement capacitor, mains connector, rewirable fuse and 2 nos. earthing terminals - one internal and one external. A synthetic rubber gasket makes the controlgear box weatherproof. An electronic ignitor is provided for use with HPSV & MH lamps.

CABLE ENTRY:

Three nos. 3/4" BSC (19mm) threaded brass nipples with grommet. Mains connector is suitable for 4 sq mm. incoming cable.

MOUNTING:

Two nos. of mounting brackets facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
CG1208M(CA)	HPMV	1	80	240	0.43	135	280	127	3.4	2
CG1212M(CA)	HPMV	1	125	240	0.66	135	280	127	3.4	2
CG1207S(CA)*	HPSV	1	70	240	0.46	135	280	127	3.4	2
CG1210S(CA)	HPSV	1	100	240	0.48	135	280	127	3.4	2
CG1207MH(CA)	MH	1	70	240	0.46	135	280	127	3.4	2

*In case of controlgear boxes suitable for 70W HPSV lamps, if required with electronic ignitor, please add suffix "WI" to Cat. Ref., if required without ignitor, please add suffix "NI" to Cat. Ref.

CAST AL CONTROLGEAR BOX



IP55

CG (AL)

CONSTRUCTION:

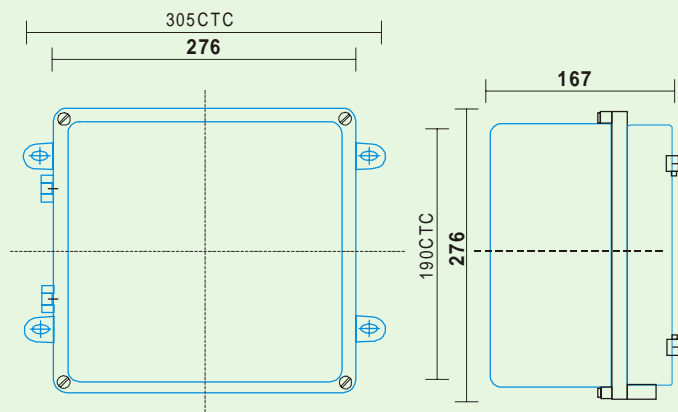
Body made of cast aluminium LM6 with stove enamel finish outside. The controlgear box is prewired with copper wound polyester ballast, power factor improvement capacitor, electronic ignitor, rewirable fuse, mains connector and 2 nos. earthing terminals - one internal and one external. A synthetic rubber gasket makes the controlgear box weatherproof.

CABLE ENTRY:

Three nos. 3/4" BSC(19mm) threads provide for cable glands at one end of the box. Mains connector is suitable for 4 sq.mm incoming cable.

MOUNTING:

Four nos. fixing holes of 10mm dia. provided on cast lugs facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
CG291KMH(CA)	MH	1	1000	240	4.2	276	276	167	15.5	1



DEEP DRAWN CONTROLGEAR BOX

IP54

CG12

CONSTRUCTION:

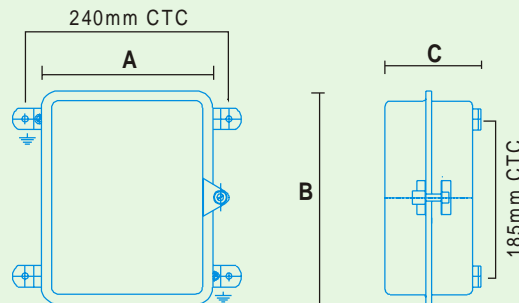
Body made from deep drawn CRCA MS sheet, painted grey from outside. The controlgear box comprises two compartments, top one acts as a cover which is hinged on one side & bottom compartment is provided with detachable CRCA MS gear tray consisting of accessories like copper wound polyester ballast, power factor improvement capacitor, and an electronic ignitor for HPSV and MH lamps.

CABLE ENTRY:

Three nos. 3/4" BSC (19mm) knockouts provided for cable glands at the bottom of the box. Mains connector is suitable for 4 sq mm. incoming cable.

MOUNTING:

Two nos. MS plates duly welded at the back facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
CG1208M	HPMV	1	80	240	0.43	204	228	113	4.0	2
CG1212M	HPMV	1	125	240	0.66	204	228	113	4.3	2
CG1225M	HPMV	1	250	240	1.32	204	228	113	5.3	2
CG1240M	HPMV	1	400	240	2.10	204	228	113	6.4	2
CG1207S	HPSV	1	70	240	0.46	204	228	113	4.3	2
CG1215S	HPSV	1	150	240	0.70	204	228	113	5.4	2
CG1225S	HPSV	1	250	240	1.30	204	228	113	6.4	2
CG1207MH	MH	1	70	240	0.46	204	228	113	4.3	2
CG1215MH	MH	1	150	240	0.70	204	228	113	5.4	2
CG1225MH	MH	1	250	240	1.30	204	228	113	6.4	2



DEEP DRAWN CONTROLGEAR BOX

IP54

CG12

CONSTRUCTION:

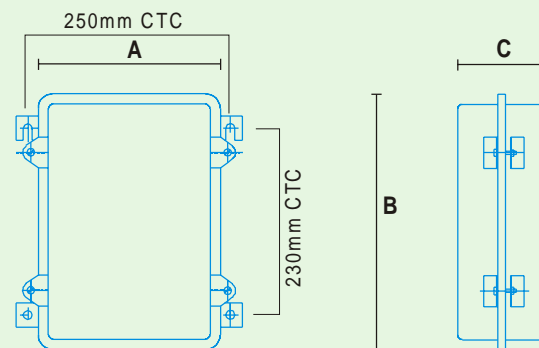
Body made from deep drawn CRCA MS sheet, painted grey from outside. The controlgear box is prewired with copper wound polyester ballast, power factor improvement capacitor, mains connector, rewirable fuse, 2 nos. earthing terminals - one internal and one external, and an electronic ignitor. A synthetic rubber gasket makes the controlgear box weatherproof.

CABLE ENTRY:

Is through 3 nos. 3/4" BSC (19mm) knockouts provided for cable glands. Mains connector is suitable for 4 sq mm. incoming cable.

MOUNTING:

Four nos. M.S. strips on the rear side, facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
CG1240S	HPSV	1	400	240	2.0	225	315	113	8.6	2
CG1240MH	MH	1	400	240	2.0	225	315	113	8.6	2



CONTROLGEAR BOX

IP20

CP12 - CONTROL PACK

CONSTRUCTION:

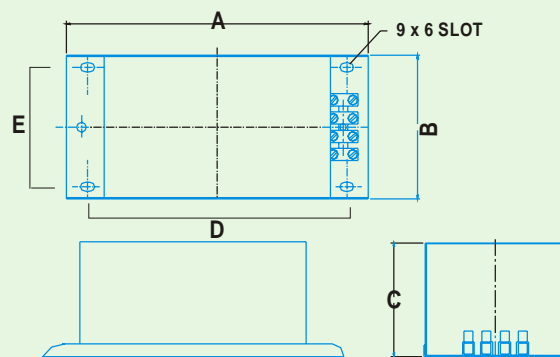
Body is fabricated from CRCA MS sheet, stove enamelled in light grey. The control pack is suitable for Metal Halide lamp for indoor application. It comprises cannister housing, resin encapsulated with copper wound ballast, power factor improvement capacitor and electronic ignitor, rewirable fuse, mains connector, and one no. earthing terminal.

CABLE ENTRY:

Two nos. connector are provided outside on the CG pack, for mains and lamps suitable for 4 sq mm. cable.

MOUNTING:

Four nos. 9 x 6 mm slots on base plate facilitate mounting.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)					Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C	D	E		
CP1207MH	MH	1	70	240	0.46	195	72	61	175	56	2.3	6
CG1215MH	MH	1	150	240	0.70	188	94.4	76	170	66	3.2	4
CP1225MH	MH	1	250	240	1.30	200	94.4	76	185	66	4.2	4

The control packs are also suitable for HPSV lamps of respective wattages.



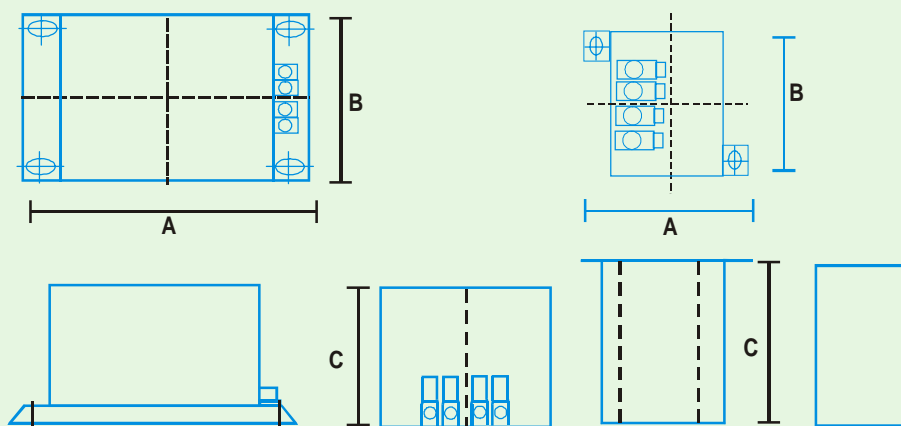
HID BALLAST

LAB

CONSTRUCTION:

Heavy duty copper wound ballasts are pneumatically assembled with high quality silicon lamination to ensure perfect impedance for regulating the lamp voltage and current. The ballast is resin encapsulated for longer life.

Ballasts meant for HPSV and MH lamps have a 4 way connector with tapings of ignitor- 240V- 220V-COM, whereas ballasts meant for HPMV lamps have a 4 way connector with tapings at 240V-220V-200V-COM.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)
	Type	No	Watts			A	B	C	
LAB1108M	HPMV	1	80	240	0.8	115	60	70	1.4
LAB1112M	HPMV	1	125	240	1.15	115	60	70	1.7
LAB2925M	HPMV	1	250	240	2.15	137	82	84	2.8
LAB1140M	HPMV	1	400	240	3.25	132	76	93	3.8
LAB1108M/OP	HPMV	1	80	240	0.80	85	83	72.5	1.8
LAB1112M/OP	HPMV	1	125	240	1.15	85	83	72.5	1.8
LAB1107MH/OP	MH	1	70	240	1.00	85	83	72.5	1.8
LAB1107S/MH	HPSV/MH	1	70	240	1.00	115	60	70	1.7
LAB2915S/MH	HPSV/MH	1	150	240	1.80	132	76	92	2.7
LAB1125S/MH	HPSV/MH	1	250	240	3.00	132	76	93	3.7
LAB2940S/MH	HPSV/MH	1	400	240	4.40	166	85	105	5.8

HIGH-TECH VPIT COPPER BALLAST



SFB

TYPE:

New generation, shell type, low loss design, hi-tech VPIT (Vacuum Pressure Impregnation Technology) ballasts for 36/40 W fluorescent tubes, compact fluorescent lamps and fluorescent circular lamps.

CONSTRUCTION:

VPIT ballasts are copper wound, pneumatically assembled and hydromechanically sealed for robust and rigid construction. The coil is surrounded by metal core for better heat dissipating characteristics.

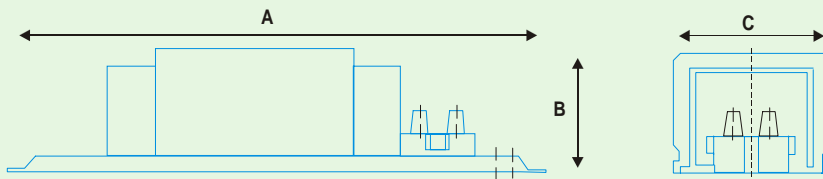
SALIENT FEATURES:

Manufactured using vacuum pressure impregnation technology for longer life. Low loss design saves energy in comparison to conventional ballasts.

The fixing arrangement is flexible and can be effected using two screws in the 'U' slots or four nos. screws in holes provided on either ends of the base plate. Sleek and slim appearance makes the ballasts aesthetically appealing.

*Passes thermal endurance test.

*Passes abnormal temp. rise test.



Cat Ref	Voltage	Current	Tw	ΔT	Dimension (mm)			Lamp Type
	(V)	(A)			A	B	C	
SFB 4340	230	0.36	130 ⁰ C	70 ⁰ C	140	32	40	36/40W FTL
SFB 6540	240	0.43	130 ⁰ C	70 ⁰ C	140	32	40	36/40W FTL
SFB 8040	240	0.43	130 ⁰ C	60 ⁰ C	140	32	40	36/40W FTL
SFB 8540	240	0.41	130 ⁰ C	35 ⁰ C	186	32	40	36/40W FTL
SFB 9040	240	0.43	130 ⁰ C	50 ⁰ C	186	32	40	36/40W FTL
SFB 7032	240	0.45	130 ⁰ C	85 ⁰ C	140	32	40	32 W FCL*
SFB 6020	230	0.37	130 ⁰ C	70 ⁰ C	140	32	40	18/20W FTL
SFB 7020/22	240	0.385	130 ⁰ C	70 ⁰ C	140	32	40	18/20W FTL 22W FCL*
SFB 7019/11	230	0.177	120 ⁰ C	55 ⁰ C	90	32	40	9/11 W CFL
SFB 7013	240	0.17	130 ⁰ C	55 ⁰ C	90	32	40	13 W CFL
SFB 7029	230	0.155	120 ⁰ C	55 ⁰ C	90	32	40	2 X 9W CFL
SFB 7018	240	0.231	130 ⁰ C	55 ⁰ C	90	32	40	18W CFL

1. Low loss (9W loss max)- SFB8040, Extra low loss (7W loss max.)-SFB9040, Super low loss (5.5W loss max.)-SFB 8540.

2. * FCL-Flourescent circular lamp

HIGH-TECH ULTRASLIM VPIT COPPER BALLAST



USB

TYPE:

New generation, shell type, low loss design, hi-tech Ultraslim VPIT (Vacuum Pressure Impregnation Technology) ballasts for 18/20W, 36/40 W fluorescent tubes and compact fluorescent lamps.

CONSTRUCTION:

Ultraslim VPIT ballasts are copper wound, pneumatically assembled and hydromechanically sealed for robust and rigid construction. The coil is surrounded by metal core for better heat dissipating characteristics.

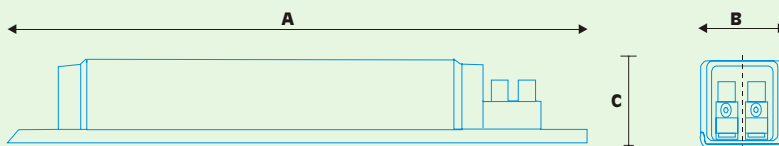
SALIENT FEATURES:

Manufactured using Vacuum pressure impregnation technology for longer life. Its sleek construction is mainly designed for FTL of 26mm dia. and can operate at an ambient temp. of 60°C.

The fixing arrangement is flexible and can be effected using two screws in the 'U' slots provided on either ends of the base plate. Sleek and slim appearance makes the ballasts aesthetically appealing.

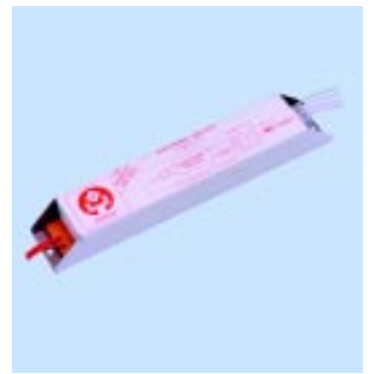
*Passes Thermal endurance test.

* Passes abnormal temp. rise test.



Cat Ref	Lamp			Voltage (V)	Current (A)	Tw	ΔT	Dimension (mm)		
	Type	No	Watts					A	B	C
USB 7040	FTL	1	36/40	240	0.39	130	70°C	190	26.5	28.5
USB 6040	FTL	1	36/40	230	0.39	130	70°C	162	26.5	28.5
USB6020	FTL	1	18/20	230	0.37	130	70°C	162	26.5	28.5
USB6019/11	CFL	1	9/11	230	0.177	130	55°C	150	26.5	28.5
USB 6029	CFL	2	9	230	0.155	130	55°C	150	26.5	28.5

HIGH FREQUENCY ELECTRONIC BALLAST



EBFN 14LC

TYPE:

High Frequency Electronic ballast for single 36/40W FTL

FEATURES:

- * Lower operating voltage - 75 volts.
- * 25% saving on electricity bills.
- * Flickerless instant start, no humming noise.
- * Glass fuse for protection .
- * No starter required.
- * Longer lamp life.

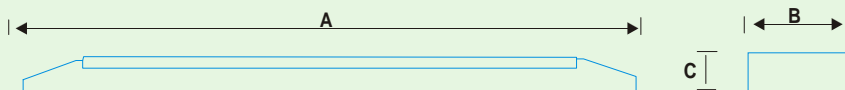
ADVANTAGES OVER

CONVENTIONAL BALLAST:

- * Wide operating voltage range from 75 to 300 volts, which in conventional magnetic ballast is from 180 to 240 volts.
- * 2 watts system loss in electronic ballast compared to 13-15 watts loss in conventional magnetic ballast.
- * Operates at high frequency, hence no flicker start of the tube and also gives better light output.
- * Much reduced weight as compared to heavy conventional ballast.
- * Ease of wiring .
- * Purely electronic components used hence temp rise is only 8° C from ambient, leading to less heat generation and hence reduces air conditioning load.
- * Approx. 50% longer lamp life in comparison to conventional operation.

APPLICATIONS:

Suitable for domestic use only.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
EBFN 14LC	FTL	1	36/40	230	0.18/0.20	236	42	32	0.2	36

HIGH FREQUENCY ELECTRONIC BALLAST



EBFN 14/H, EBFN 24/M/H

TYPE:

High Frequency Electronic ballast for single/twin 36/40W FTL.

FEATURES:

- * Circuit power factor is > 0.9
- * Provided with a special filter to suppress spikes on mains and to reduce interference.
- * Automatic cut off protection for a de-activated tube.
- * Glass fuse for protection.
- * Short circuit protection for a limited duration for both PCB terminals & components.
- * Withstands high voltage (HV) test of 1500V between terminals & the body.
- * Metal body reduces radiated interference.
- * High level of reliability obtained through use of high quality components & stringent tests.
- * Easy connections by using polarized connectors.
- * It conforms to IS 13021 (Part I & II)

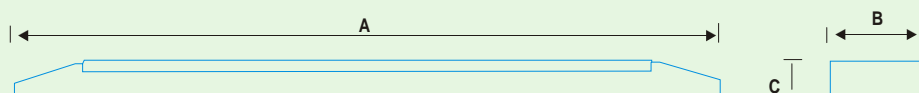
ADVANTAGES

OVER CONVENTIONAL BALLAST:

- * 1-2W system loss in 14/H as compared to 12-15W loss in conventional ballast and 3W system loss in 24/M/H as compared to 24 - 30W loss in a conventional ballast.
- * Temp rise 10°C in 14/H and 12°C in 24/M/H after 3 hrs operation leading to less heat generation, hence reduces air-conditioning cost.
- * Operates at high frequency, hence gives better lumen o/p, thereby increases the efficacy by 10% to 12%.
- * Better lighting quality - No stroboscopic effects. No humming noise.
- * Approx 50% longer lamp life, in comparison to conventional operation.

APPLICATIONS:

Suitable for industries & commercial complexes.



Cat Ref	Lamp			Voltage (V)	Current (A)	Dimension (mm)			Approx Wt (Kgs)	Case lot (Nos)
	Type	No	Watts			A	B	C		
EFBN 14/H	FTL	1	36/40	240	0.16/0.17	280	42	30	0.3	36
EFBN 24/M/H	FTL	2	36/40	240	0.32/0.34	422	42	28	0.5	36