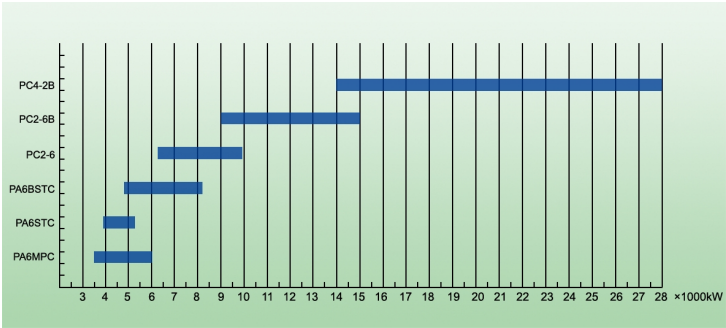


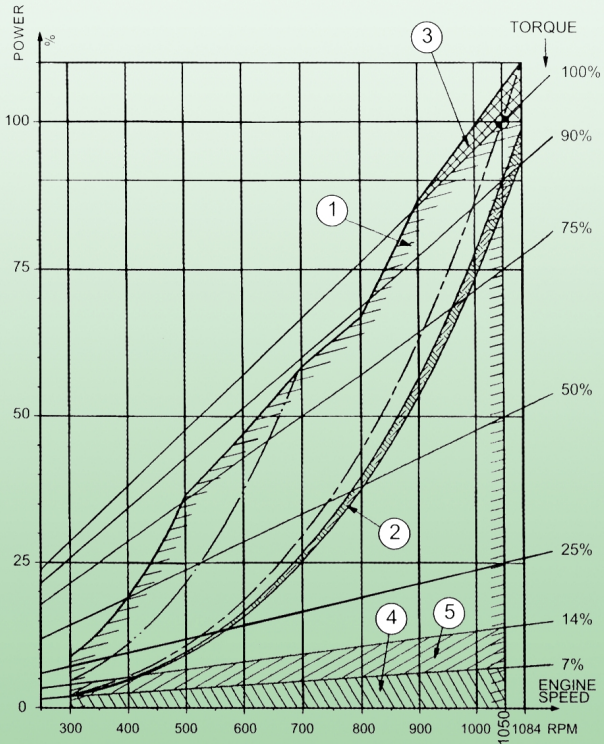
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S.E.M.T. Pielstick Engine Programme

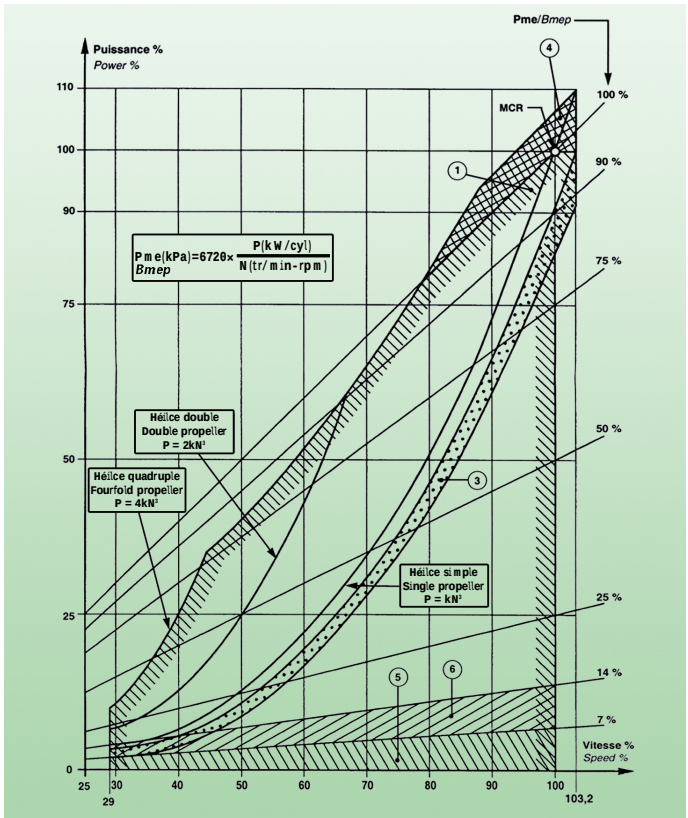


PA6B STC Engine Operating Zone



1. Continuous operating zone
2. Recommended zone for fixed pitch propeller design
3. Intermittent operating zone(one hour every six hours)
4. Operating zone limited to 12 hours
5. Operating zone limited to 48 hours

PA6V-STC Engine Operating Zone

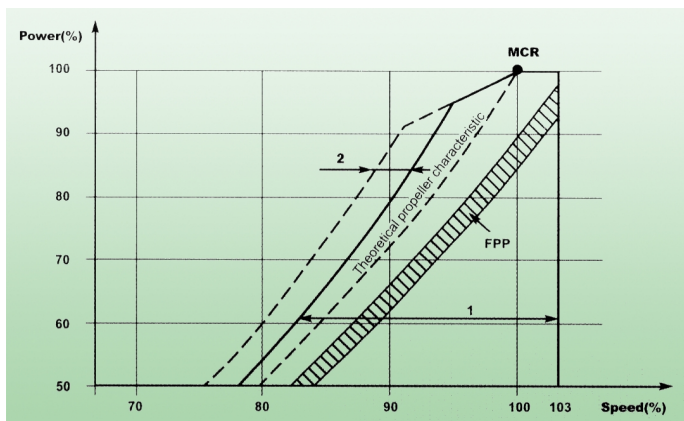


- 1 - Maximum continuous range (MCR).
- 3 - Recommended operating range with fixed pitch propeller during sea trial.
- 4 - Intermittent operating range (1 hour every 6 hours).
- 5 - Operating range limited to 12 hours.
- 6 - Operating range limited to 48 hours.

PC2-6B Engine Operating Zone

Fixed Pitch Propeller (FPP)

Single Engine Plants



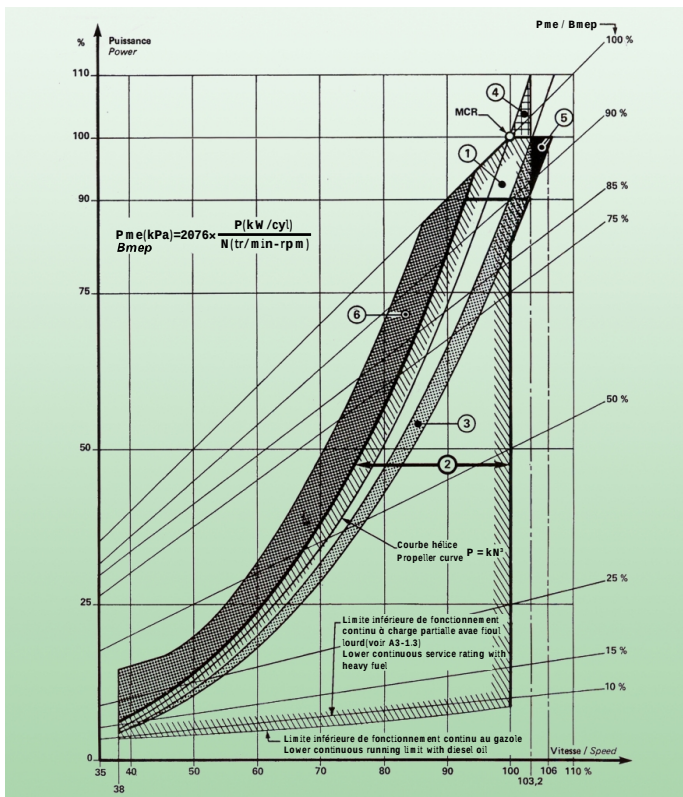
Type testing of engines is carried out at 110% rated output and 103% rated engine speed.

MCR = Maximum Continuous Rating (fuel stop power)

1 = Operating range for continuous service subject to propeller lightrunning of 1.5-3%, the lower value being desirable.

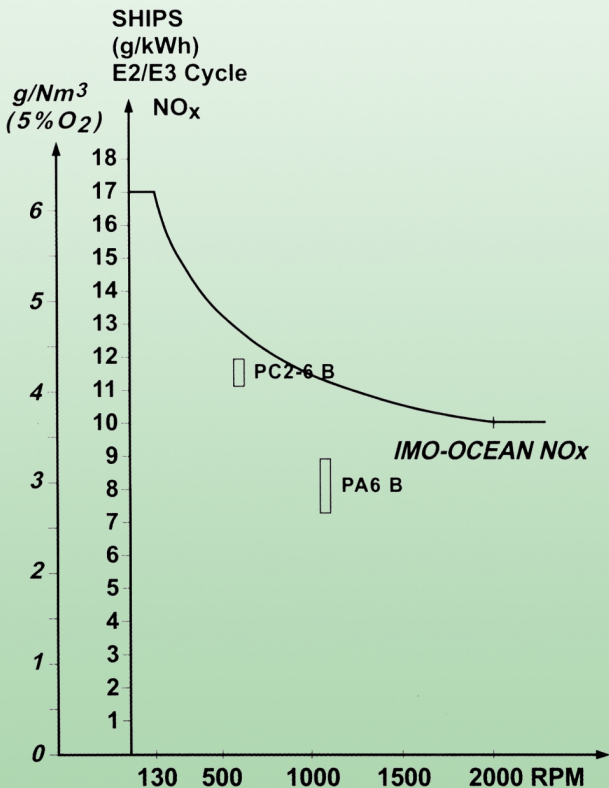
2 = Operating range temporarily admissible e.g. during acceleration, manoeuvring (torque limit).

PC2-6 MPC Engine Operating Zone



- 1 - Maximum continuous range (MCR).
- 2 - Recommended continuous service range (CSR).
- 3 - Recommended operating range with fixed pitch propeller during sea trial
- 4 - Overload range stop tests.
- 5 - Overspeed range for sea trials only
- 6 - Transient operating range

S.E.M.T.Pielstick Engine Emission

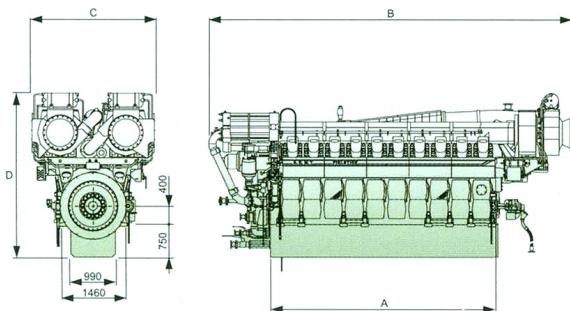


S.E.M.T. Pielstick PA6B-STC Marine Engine

Cylinder bore	280 mm
Piston stroke	330 mm
Speed	1,050 r/min
Brake mean effective pressure	2.28 MPa
Power per cylinder	405 kW
Specific fuel consumption	197 g/kWh
Lubricating oil consumption	0.7 g/kWh
Exhaust gas emissions NOx	10.0 g/kWh

Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)				Dry mass t
			A	B	C	D*	
12PA6B-STC	12	4,860	3,055	5,924	2,460	3,391	32.8
16PA6B-STC	16	6,480	3,975	6,948	2,460	3,391	40.1
18PA6B-STC	18	7,290	4,435	7,644	2,714	3,620	43
20PA6B-STC	20	8,100	4,895	7,863	2,714	3,620	46

Note: D* is the engine height with wet oil sump.

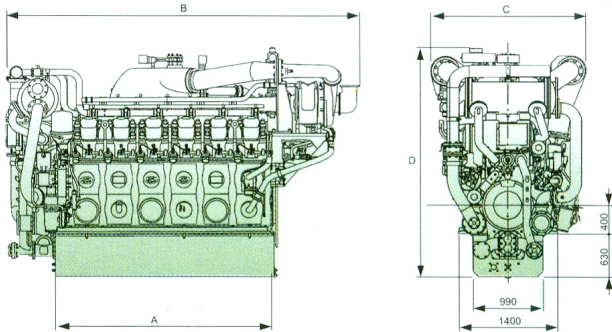


S.E.M.T. Pielstick PA6-STC Marine Engine

Cylinder bore	280 mm
Piston stroke	290 mm
Speed	1,050 r/min
Power per cylinder	324 kW
Specific fuel consumption	202 g/kWh

Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)				Dry mass t
			A	B	C	D*	
12PA6-STC	12	3,888	3,055	4,991	2,196	3,264	24
16PA6-STC	16	5,184	3,975	6,093	2,196	3,264	31

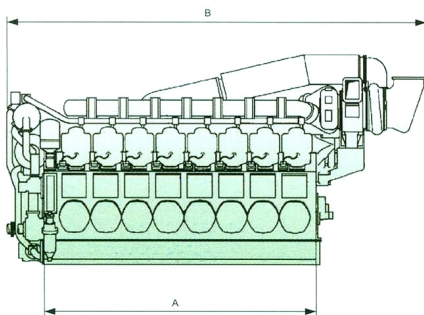
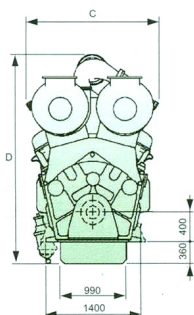
Note: D* is the engine height with wet oil sump.



S.E.M.T. Pielstick PA6 MPC Marine Engine

Cylinder bore	280 mm
Piston stroke	290 mm
Speed	1,000 r/min
Power per cylinder	295 kW
Specific fuel consumption	208 g/kWh

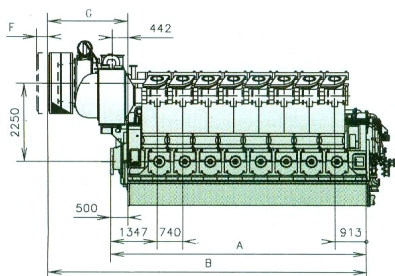
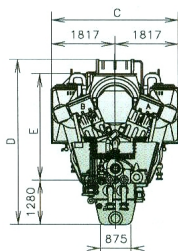
Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)				Dry mass t
			A	B	C	D	
12PA6MPC	12	3,540	3,055	4,885	1,780	2,941	24.5
16PA6MPC	16	4,720	3,975	6,180	1,960	3,023	31.5
18PA6MPC	18	5,310	4,435	6,640	1,960	3,023	34.5
20PA6MPC	20	5,900	4,895	7,100	1,960	3,023	37



S.E.M.T. Pielstick PC2-6B Marine Engine

Cylinder bore	400 mm
Piston stroke	500 mm
Speed	600 r/min
Power per cylinder	750 kW
Brake mean effective pressure	2.39 MPa
Specific fuel consumption	176 g/kWh
Lubricating oil consumption	0.7 g/kWh
Exhaust gas emissions NOx	12.4 g/kWh

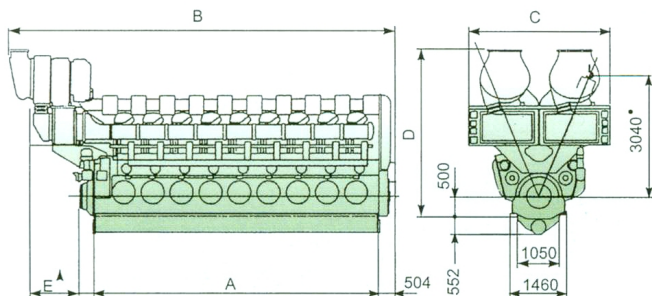
Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)							Dry mass t
			A	B	C	D	E	F	G	
12PC2-6B	12	9,000	5,960	8,247	3,674	4,794	3,065	320	2,287	94
14PC2-6B	14	10,500	6,700	8,987	3,674	4,794	3,065	320	2,287	104
16PC2-6B	16	12,000	7,440	9,727	3,674	4,794	3,065	320	2,287	114
18PC2-6B	18	13,500	8,180	10,467	3,674	4,794	3,065	320	2,287	123
20PC2-6B	20	15,000	8,920	11,018	3,674	4,689	2,960	240	2,098	140



S.E.M.T. Pielstick PC2-6MPC Marine Engine

Cylinder bore	400 mm
Piston stroke	460 mm
Speed	520 r/min
Power per cylinder	550 kW
Specific fuel consumption	185 g/kWh

Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)					Dry mass t
			A	B	C	D	E	
12PC2-6MPC	12	6,600	5,055	7,233	3,360	4,490	1,000	80
16PC2-6MPC	16	8,800	6,535	8,713	3,360	4,490	1,000	100
18PC2-6MPC	18	9,900	7,275	10,185	3,700	4,892	1,350	110

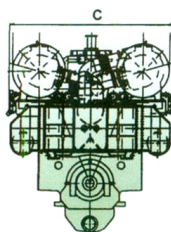
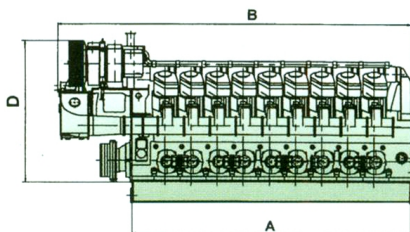


- ▲ Space necessary for dismantling the air-cooler tube nests.
- Clearance height below hook for dismantling the piston-connecting rod assembly (inlet manifold removed).

S.E.M.T. Pielstick PC4-2B Marine Engine

Cylinder bore	570 mm
Piston stroke	660 mm
Speed	430 r/min
Engine power per cylinder	1400 kW
Specific fuel consumption	175 g/kWh

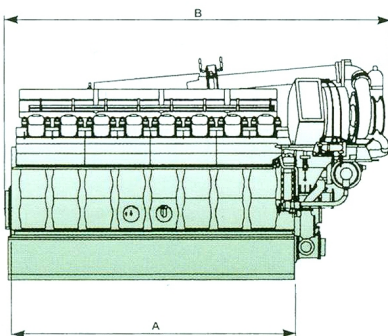
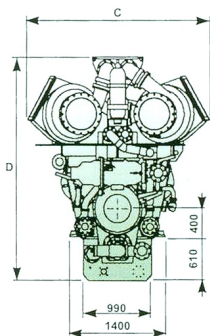
Engine type	Cyl. No.	Propulsion Maximal continuous rating kW	Dimensions(mm)				Dry mass t
			A	B	C	D	
10PC4-2B	10	14,000	6,580	9,210	5,670	5,170	205
12PC4-2B	12	16,800	7,560	10,190	6,100	5,170	240
14PC4-2B	14	19,600	8,540	11,410	6,600	5,170	275
16PC4-2B	16	22,400	9,520	12,390	6,600	5,170	300
18PC4-2B	18	25,200	10,500	13,370	6,600	5,170	330
20PC4-2B	20	28,000	11,480	14,350	6,600	5,170	360



S.E.M.T. Pielstick PA6B Engine for Generator

Cylinder bore	280 mm
Piston stroke	330 mm
Specific fuel consumption	199 g/kWh 1,000 r/min (50 Hz) 195 g/kWh 900 r/min (60 Hz)
Engine power per cylinder	370 kW(50Hz) 350 kW(60Hz)

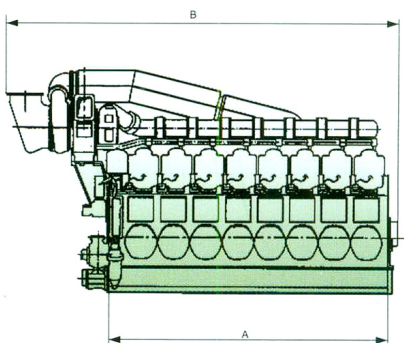
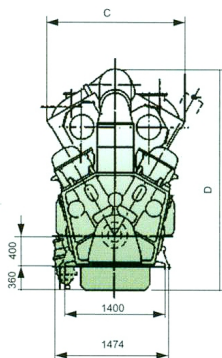
Engine type	Cyl. No.	50 Hz 1,000r/min	60Hz 900r/min	Dimensions(mm)				Dry mass t
		Maximal continuous rating kW	Maximal continuous rating kW	A	B	C	D	
12PA6B	12	4,440	4,200	3,055	4,692	2,150	2,975	25
16PA6B	16	5,920	5,600	3,975	5,393	2,686	3,140	32
20PA6B	20	7,400	7,000	4,895	6,495	2,550	3,417	37.5



S.E.M.T. Pielstick PA6 MPC Engine for Generator

Cylinder bore	280 mm
Piston stroke	290 mm
Specific fuel consumption	208 g/kWh 1,000 r/min(50 Hz)
	205 g/kWh 900 r/min(60 Hz)

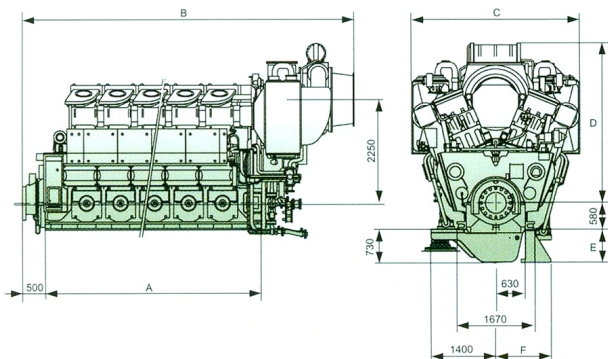
Engine type	Cyl. No.	50 Hz 1,000r/min	60Hz 900r/min	Dimensions(mm)				Dry mass t
		Maximal continuous rating kW	Maximal continuous rating kW	A	B	C	D	
12PA6MPC	12	3,540	3,265	3,055	4,323	1,780	2,941	19.3
16PA6MPC	16	4,720	4,350	3,975	5,516	1,960	3,023	27.4
18PA6MPC	18	5,310	4,895	4,435	5,976	1,960	3,023	30.2
20PA6MPC	20	5,900	5,440	4,895	6,436	1,960	3,023	33



S.E.M.T. Pielstick PC2-6B Engine for Generator

Cylinder bore	400 mm
Piston stroke	500 mm
Speed	600 r/min(50Hz 或 60Hz)
Engine power per cylinder	750 kW
Brake mean effective pressure	2.39 MPa
Specific fuel consumption	176 g/kWh
Lubricating oil consumption	0.7 g/kWh
Exhaust gas emissions NOx	12.4 g/kWh

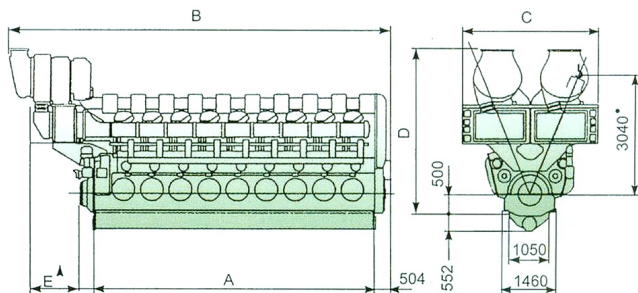
Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)						Dry mass t
			A	B	C	D	E	F	
12PC2-6B	12	9,000	5,460	7,870	3,700	2,930	895	1,498	100
16PC2-6B	16	12,000	6,940	9,419	3,634	3,485	710	1,190	120
18PC2-6B	18	13,500	7,545	9,981	3,503	3,633	600	1,340	125



S.E.M.T. Pielstick PC2-6 Engine for Generator

Cylinder bore	400 mm
Piston stroke	460 mm
Speed	514 r/min (60Hz), 500 r/min (50Hz)
Engine power per cylinder	550 kW
Specific fuel consumption	185 g/kWh

Engine type	Cyl. No.	Maximal continuous rating kW	Dimensions(mm)					Dry mass t
			A	B	C	D	E	
12PC2-6	12	6,600	5,055	7,360	3,360	3,938	1,000	80
16PC2-6	16	8,800	6,535	8,840	3,360	3,938	1,000	100
18PC2-6	18	9,900	7,275	10,185	3,700	4,340	1,350	110



- ▲ Space necessary for dismantling the air-cooler tube nests.
- Clearance height below hook for dismantling the piston-connecting rod assembly (inlet manifold removed).

S.E.M.T. Pielstick PC4-2B Engine for Generator

Cylinder bore	570 mm
Piston stroke	660 mm
Speed	400 r/min (60Hz) 429 r/min (50Hz)
Engine power per cylinder	1400 kW for 429 r/min 1300 kW for 400 r/min
Specific fuel consumption	175 g/kWh

Engine type	Cyl. No.	Generator Maximal continuous rating kW		Dimensions(mm)				Dry mass t
		50 Hz	60Hz	A	B	C	D	
10PC4-2B	10	14,000	13,000	6,580	9,210	5,670	5,170	205
12PC4-2B	12	16,800	15,600	7,560	10,190	6,100	5,170	240
14PC4-2B	14	19,600	18,200	8,540	11,410	6,600	5,170	275
16PC4-2B	16	22,400	20,800	9,520	12,390	6,600	5,170	300
18PC4-2B	18	25,200	23,400	10,500	13,370	6,600	5,170	330
20PC4-2B	20	28,000	26,000	11,480	14,350	6,600	5,170	360

