

Cable Clamp & Dividing Sheet

Accessories for Plarailchain

PISCO®

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⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

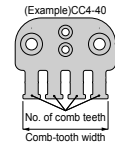
■ Cable clamp

CC **4-40**
(1) (2)

(1) Cable clamp

(2) No. of Comb teeth / Comb-tooth width

Code	4-40	5-50	6-60	7-70	8-80	9-90	10-100
No. of Comb teeth	4 pcs.	5 pcs.	6 pcs.	7 pcs.	8 pcs.	9 pcs.	10 pcs.
Comb-tooth width (mm)	38.9	49.2	59.5	69.8	80.1	90.4	100.7



■ CC spacer

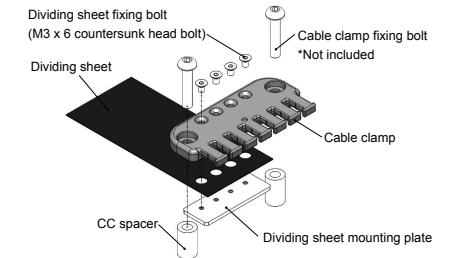
CCS **10**
(1) (2)

(1) Spacer for Cable clamp

(2) Height

Code	10	13	16
Height (mm)	10	13	16

*CC spacers are a set of two.



■ Dividing sheet (Made-to-order product)

TS **16** - **L1000**
(1) (2) (3)

(1) Dividing sheet

(2) Dividing sheet width

Code	16	26	36	46	56	76
Sheet width (mm)	16	26	36	46	56	76
Applicable Cable clamp	CC4-40	CC5-50	CC6-60	CC7-70	CC8-80	CC10-100

(3) Dividing sheet length

Enter the length of the dividing sheet after "L". (Specify between 150 mm and 2,500 mm in 5 mm increments.)

*Length tolerances are listed below.

150mm to 1,000mm: ±2mm

1,000mm to 2,500mm: ±4mm

■ Dividing sheet mounting set

CC **4-40** - **SET**
(1) (2)

(1) Cable clamp

(2) No. of Comb teeth / comb-tooth width

*See Cable clamp model designation

Components of Dividing sheet mounting set



- Cable clamp (1 pc.)
- M3 x 6 countersunk head bolt (See table on the right for quantities)
- Dividing sheet mounting plate (1 pc.)

Cable clamp model code	No. of countersunk head bolt	Guideline for applicable inner width (mm)
CC4-40	2	20
CC5-50	2	30
CC6-60	3	40
CC7-70	4	50
CC8-80	5	60
CC10-100	7	80

■ Dividing sheet mounting set + Dividing sheet (Made-to-order product)

CC **4-40** - **SET** - **L1000**
(1) (2) (3)

(1) Cable clamp

(2) No. of Comb-teeth / comb-tooth width

*See Cable clamp model designation

(3) Dividing sheet length

*See dividing sheet model designation

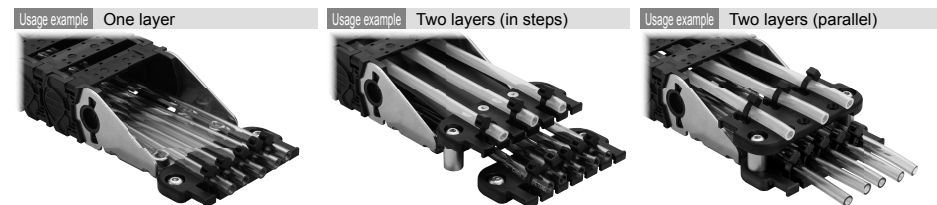
Components of Dividing sheet fixing set + Dividing sheet



- Dividing sheet mounting set (2 sets) *See components of Dividing sheet mounting set.
- Dividing sheet (1 pc)

Characteristics

- Reduces strains such as pulling or protruding that may cause wear and tear.
- Tubes and cables are easily fixed by simply fastening with cable ties.
- Organizes the inside of the plastic rail chain. *Cable ties are to be prepared by the customer.
- Available in 7 types from 4 to 10 teeth depending on the width.
- By using spacers, cables and tubes can be organized into two layers.
- A set with dividing sheet is also available.



*Cable clamp fixing bolts are not included. Recommended screws; hexagon socket button bolts M5 (2 pcs)

Dividing sheet

- Convenient for organizing tubes and cables when using in two layers.
- Reduces wear between contents.
- Can be ordered in desired lengths in 5mm increments.

Specifications

Cable clamp

Body material	PA6 GF35%
Operating temp. range (°C)	-10 to 80
Operating environment	Avoid using in acid/alkaline atmosphere or in hot water.

Divider sheet material

Dividing sheet	Ultra-high-molecular-weight polyethylene (UHMW-PE)
CC spacer	Aluminum
Dividing sheet mounting plate	SUS430
Dividing sheet fixing bolt	Alloy Steel

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code	Type	Model code
Cable clamp CC	CC4-40	CC spacer CCS	CCS10
	CC5-50		CCS13
	CC6-60		CCS16
	CC7-70		
	CC8-80		
	CC9-90		
	CC10-100		
		*CC spacers are a set of two.	

Type	Model code	Applicable Cable clamp
Dividing sheet TS	TS16-L ^③	CC4-40
	TS26-L ^③	CC5-50
	TS36-L ^③	CC6-60
	TS46-L ^③	CC7-70
	TS56-L ^③	CC8-80
	TS76-L ^③	CC10-100

Type	Model code	Type	Model code
Dividing sheet mounting set CC-SET	CC4-40-SET	Dividing sheet mounting set + Dividing sheet CC-SET-L	CC4-40-SET-L ^③
	CC5-50-SET		CC5-50-SET-L ^③
	CC6-60-SET		CC6-60-SET-L ^③
	CC7-70-SET		CC7-70-SET-L ^③
	CC8-80-SET		CC8-80-SET-L ^③
	CC10-100-SET		CC10-100-SET-L ^③

CAD data is available at PISCO website.



Notes

- *For ^③ in model code, please select a code for Dividing sheet length.
- *For information on how to select dividing sheet length, please contact the nearest sales office.

Cable clamp compatibility table

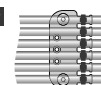
Approximate inner width for Cable clamp application

Type	CC4-40	CC5-50	CC6-60	CC7-70	CC8-80	CC9-90	CC10-100
Approximate inner width (mm)	20~50	30~60	40~70	50~80	60~90	70~100	80~110
When using in one layer	20	30	40	50	60	70	80
When using in two layers							

*Note that when using in 2 layers, CC spacers have to be used, which reduces the space on the lower layer and limits the number of cables/hoses stored.

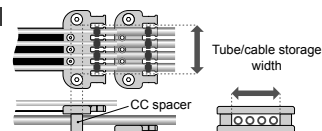
When using in one layer

All comb-teeth can be used



When using in two layers

Only the comb-teeth between the spacers can be used



When using in one layer Reference Table for Plarailchain and Cable clamps

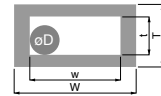
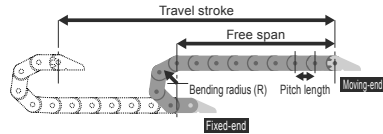
Type	Plarailchain inner width (mm)																				
	20	22	24	25	28	29	35	40	42	44	50	54	58	60	70	75	80	85	97	100	105
HPU	203		—	—	—	—	—	206	—	306	—	—	408	—	—	—	—	—	412	—	—
	204																				
HPO	203	204	—	—	—	—	—	—	206	—	—	—	408	—	—	—	—	—	412	—	—
																			512		
HPK	—	—	203	—	—	204	—	—	—	206	—	—	—	—	—	—	—	—	—	—	—
HPM	—	—	—	204	—	205	—	—	—	206	—	—	—	—	—	—	—	—	—	—	—
HPC	—	—	—	—	203	—	—	204	—	306	—	200	—	—	—	—	—	—	—	—	—
					50			100													
HPE	—	—	—	—	—	—	—	—	—	—	—	—	408	—	—	—	—	—	412	—	—
SP	1520	—	—	—	—	—	2035	—	4542	—	2550	—	—	2560	—	4575	3580	2585	—	45100	35105
																5575				55100	
																8075				80100	
SPO	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4575	—	—	—	45100	—
																5575				55100	
SD	—	—	—	—	—	—	—	—	—	—	2550	—	—	2560	—	—	2580	—	—	—	—
SC	1520	—	—	—	—	—	—	2040	—	—	—	—	—	2560	—	—	2580	—	—	35100	—
								2540						3560							
SCL	2020	—	—	—	—	—	—	—	—	—	2050	—	—	—	2570	—	—	—	—	—	—
											3050										

Applicable Cable clamp	CC4-40																			
	CC5-50																			
	CC6-60																			
	CC7-70																			
	CC8-80																			
	CC9-90																			
	CC10-100																			

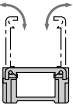
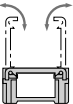
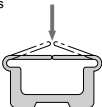
When using in two layers Cable clamp + Dividing sheet compatibility guide table

Approximate inner width (mm)		20		30	40		50	60	80
Applicable Cable clamp		CC4-40		CC5-50	CC6-60		CC7-70	CC8-80	CC10-100
Dividing sheet width (mm)		16		26	36		46	56	76
Plarailchain inner width (mm)		20	22	30	40	42	50	60	80
Type	HPU	203	—	—	206	—	—	—	—
		204	—	—	—	—	—	—	—
	HPO	203	204	—	—	206	—	—	—
	HPC	—	—	—	204	—	—	—	—
	SP	1520	—	—	100	—	—	—	—
					—	—	2550	2560	3580
	SD	—	—	—	—	—	2550	2560	2580
	SC	1520	—	—	2040	—	—	2560	2580
					2540	—	—	3560	
SCL	2020	—	—	—	—	2050 3050	—	—	

Selection chart for Plarailchain series

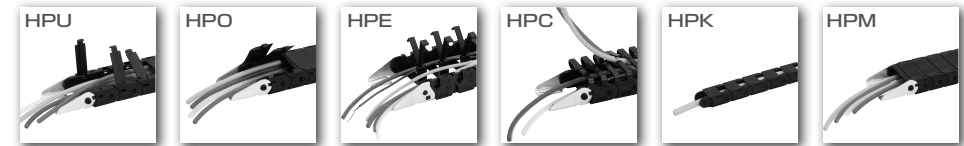


T : Height
 W : Width
 t : Inner height
 w : Inner width
 øD: Max. O.D. of cable/tube

Open-close flap type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system		
HPU	102	19	20	50	0.46	0.7	1.5	2.5	0.12	—	Snap open on either side (along the outer radius). 		
	202	25, 30, 45	25	40	0.75	1.4	1.2		0.25	—			
	203	30, 45							0.26	—			
	204	38, 50	32	32	1	1.9	2		0.5	—			
	206								0.56	—			
	306	50, 100, 150	45	23	1.5	2.9	6		0.64	—			
	408	50, 75, 100, 150, 200							1.1	●			
	412								1.3	●			
	615	75, 100, 150, 200	70	15	3	5.8	25		2.46	●			
HPO Fully-enclosed type	202	30, 45	20	50	0.75	1.4	1.9	2.5	0.28	—	Snap open on either side (along the outer radius). 		
	203								0.31	—			
	204	38, 50	26	39	1.75	3.4	10		0.5	—			
	206								0.6	—			
	408	70, 100, 150, 200	45	23	4.5	8.8	30.6		1.36	●			
	412								1.7	●			
	512								100	60			17
	819	150, 200, 250, 300, 400	90	11	2.5	4.6	35		4.4	●			
HPE Open-close split flap type	408	50, 75, 100, 150, 200	45	23	1.5	2.9	2.5	2.5	1.1	—	Twin gull-wing crossbars operate independently. 		
	412								1.3	—			
HPC Simple flap type Low noise	203	30, 45, 60	25	40	0.9	1.7	2.5	2.5	0.37	—	Cut apart crossbars by a cutter (at the spot indicated by the arrow) so that cables / tubings can be easily installed. 		
	204	50, 90, 150	32	32	1	1.8	4		0.59	—			
	306	50, 100, 150	45	23					0.78	—			
	50	60	25	40	1.06	1.9	5		0.358	—			
	100	90							0.608	—			
	200	105							1.056	—			

Fixed flap type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system	
HPK Compact	101	19	20	50	0.5	0.8	1.5	1	0.105	—	No flap	
	202	30, 45	25	40	0.75	1.4	3		0.222	—		
	203								0.24	—		
	204	38, 50	32	32	0.75	1.4	4	2.5	0.45	—		
	206				0.86	1.6	4.5		0.51	—		
HPM Fully-enclosed type	204	28	15	67	1	1.8	3	2.5	0.34	—	No flap	
	205								0.39	—		
	206	38, 50	22	46			4.5		0.46	—		

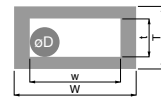
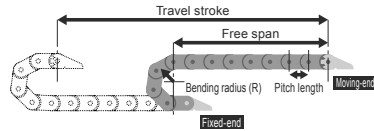
*Max. free span is the maximum length that the upper runs in straight line with no sag.



	Size (Max. O.D. of cable/tube (mm))											
	102	202	203	204	206	306	408	412	615	819	100	200

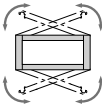
* Highlighted line indicates approximate positions where a divider can be installed.

Selection chart for Plarailchain series



T : Height
 W : Width
 t : Inner height
 w : Inner width
 øD: Max. O.D. of cable/tube

Low Abrasion, Low Noise, Open-Close Flap Type.

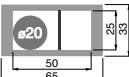
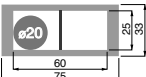
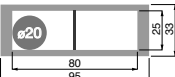
SP	SPO Fully-enclosed type	Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*1	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Rack	Open/close system
1520 ²	—	30, 50, 75	25	40	1.25	2.4	2.2	3	0.36(0.35)	—	—	Snap open on either side (along the outer radius). 
2035 ²	—	45	32	32	1.25	2.4	2.3		0.5(0.48)	●	—	
2550 ²	—	50, 75, 100, 150	36	28	1.63	3.1	6.5		0.86(0.83)	●	—	
2560 ²	—				1.75	3.3			0.85(0.82)	●	—	
2585 ²	—	60, 75, 100, 150	43.5	23	1.88	3.6	8		1.05(1.01)	●	—	
3580	—	100, 125, 150, 175, 200	62.5	16	2.25	4.4	10		1.76	●	—	
35105	—				2.38	4.6	13	1.96	●	—		
4542	—	75, 100, 125, 150, 175, 200, 250	67	15	2.13	4.2	32	3	2.3	●	●	Snap open on either side along both the inner radius and the outer radius. 
4575	4575								2.4[3]	●	●	
45100	45100								2.6[3.3]	●	●	
45115	—								2.7	●	●	
45125	45125								2.8[3.6]	●	—	
45150	45150								3.0[3.9]	●	—	
45175	—								3.1	●	—	
45200	—								3.2	●	—	
45250	—	(75 and 100 are not available for SPO.)							3.5	●	—	
5575	5575	135, 150, 200, 250	91	11	5	9.8	65	3	3.5[3.9]	●	—	Snap open on either side along both the inner radius and the outer radius.
55100	55100								3.6[4]	●	—	
55125	55125								3.7[4.1]	●	—	
55150	55150								3.8[4.2]	●	—	
55175	—								3.9	●	—	
55200	—								4.0	●	—	
55250	—								4.1	●	—	
55300	—	(135 is not available for SPO.)							4.2	●	—	
8075	—	150, 200, 250, 300, 350, 400	100	10	5	9.8	70	3	4.7	●	—	
80100	—								4.8	●	—	
80125	—								4.9	●	—	
80150	—								5.1	●	—	
80175	—								5.2	●	●	
80200	—								5.3	●	●	
80250	—								5.6	●	●	
80300	—								5.8	●	●	

SD		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*1	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Open/close system
High resistance. Low abrasion.	2550	50, 70, 100	25	40	2.2	4.3	7	4	0.9	—	Snap open on either side along both the inner radius and the outer radius.
	2560								0.95	—	
	2580								1.07	—	

*1. Max. free span is the maximum length that the upper runs in straight line with no sag.
 *2. Models available in Anti-static type.
 *3. Weights in () are for Anti-static type.
 *4. Weights in [] are for SPO.

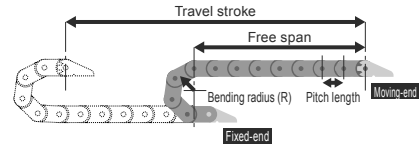


		Size (Max. O.D. of cable/tube) (mm)				
SP	1520	2035	2550	2560	2585	
	3580	35105				
SPO	4542	4575	45100	45115	45125	
	45150	45175	45200	45250		
	5575	55100	55125	55150	55175	
	55200	55250	55300			
	8075	80100	80125	80150	80175	
	80200	80250	80300			

		Size (Max. O.D. of cable/tube) (mm)				
SD	2550	2560	2580			
						

— indicates approximate positions where a divider and a rack can be installed.
 SP80□ requires a shelf divider to install a shelf.

Selection chart for Plarailchain series

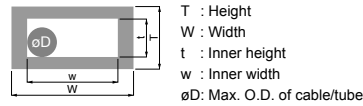


Open-Close Flap, Hinge Connection Type		Bending radius (mm)	Pitch length (mm)	No. of links (/m)	Max. free span (m)*	Max. travel stroke (m)	Max. contents weight (kg/m)	Max. travel speed (m/s)	Chain weight (kg/m)	Divider	Reck	Open/close system
SC	1520	28, 34	18	56	1.1	2.15	1	4	0.34	—	—	
Low noise, Low dust	2040	31, 38, 58	20	50	1.4	2.75			0.7	●	—	
	2540	60, 85	30	33	1.5	2.9	0.77	●	●			
	2560	60					0.94	●	●			
	2580	60, 85					1.2	●	●			
	3560	75, 100	45	23	2	3.9	1.4	●	●			
35100	75, 100, 115	2					●	●				
SCL	2020	36	20	50	1.4	2.75	1	4	0.39	—	—	
Low noise, Low dust	2050	31	30	33	1.5	2.9	0.58		●	●		
	2570	46, 64					0.96		●	●		
Space-saving type	3050	46			1.6	3.13	3	1.2	●	●		



Flap only opens
on one side
(either side)

*Max. free span is the maximum length that the upper runs in straight line with no sag.



	Size (Max. O.D. of cable/tube) (mm)			
SC Low noise, Low dust	1520	2040	2540	2560
	2580	3560	35100	
SCL Low noise, Low dust Space-saving type	2020	2050	2570	3050

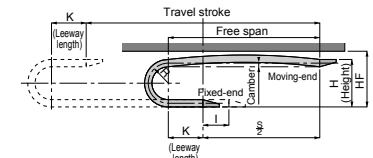
Plarailchain Number of Links Calculation

Number of links calculation

Number of links is to be calculated by the following formula.

$$n = \frac{S}{2} + a + 1$$

n: Number of links (Round up after the decimal point)
 S: Travel stroke
 a: $\pi R + 2K$ (R: Bending radius (mm), K: Leeway (mm))
 l: Distance from mid point (mm) when the fixed-end is not in the middle of travel stroke. (When the travel stroke is in the mid point: 0).
 P: Pitch length (mm)



*1. "HF" in the drawing above shows the installation height (clearance height) taking into account the camber (curve of upper run with no cables / hoses being accommodated)
 *2. Please make inquiries for special travel conditions.

Series	R	P	H	HF	K	a
102	19	20	50	65	20	99.7
202	25	25	70	85	25	128.5
	30		80	95		144.2
	45		110	125		191.3
203	30	25	80	95	25	144.2
	45		110	125		191.3
204,206	38	32	98	118	30	179.3
	50		122	142		217.0
306	50	45	134	160	50	257.0
	100		234	260		414.0
	150		334	360		571.0
408,412	50		140	170		257.0
	75		190	220		335.5
	100	45	240	270	50	414.0
	150		340	370		571.0
	200		440	470		728.0
615	75		214	275		375.5
	100	70	264	325	70	454.0
	150		364	425		611.0
	200		464	525		768.0
202,203	30	20	80	95	25	144.2
	45		110	125		191.3
204,206	38	26	98	118	30	179.3
	50		122	142		217.0
408,412	70		180	210		319.8
	100	45	240	270	50	414.0
	150		340	370		571.0
	200		440	470		728.0
512	100	60	260	320	60	434.0
	150		384	445		651.0
	200		484	545		808.0
819	250	90	584	645	90	965.0
	300		684	745		1,122.0
	400		884	945		1,436.0
408,412	50		140	180		257.0
	75		190	230		335.5
	100	45	240	280	50	414.0
	150		340	380		571.0
	200		440	480		728.0
101	19	20	50	62	25	109.7
202,203	30	25	80	95	25	144.2
	45		110	125		191.3
204,206	38	32	98	118	30	179.3
	50		122	142		217.0
204,205	28	15	79	100	15	117.9
206	30	22	80	95	25	144.2
	45		110	125		191.3
203	30	25	98	120		144.2
	45		128	150		191.3
	60		158	180		238.4
204	50		146	165		271.0
	90	32	226	245	30	342.6
	150		346	365		531.0
306	50		160	177		257.0
	100	45	260	277	50	414.0
	150		360	377		571.0
50	60	25	152	206	90	368.4
100	90	25	227	257	90	462.6
200	105	25	260	295	90	509.7



You might find this helpful

The auto-calculator to help figure out the number of links is available on our website.

Series	R	P	H	HF	K	a
1520	30	25	81	100	30	154.2
	50		121	140		217.0
	75		171	190		295.5
2035	45	32	116	140	35	211.3
	50		135	160		257.0
2550, 2560	75	36	185	210		335.5
	100		235	260	50	414.0
	150		335	360		571.0
2585	60	43.5	155	180		288.4
	75		185	210		335.5
	100		235	260	50	414.0
	150		335	360		571.0
35 □	100		250	280		440.0
	125	62.5	300	330		518.5
	150		350	380	63	597.0
	175		400	430		675.5
	200		450	480		754.0
45 □	75		214	275		375.5
	100		264	325		454.0
	125	67	314	375		532.5
	150		364	425	70	597.0
	175		414	475		689.5
	200		464	525		754.0
	250		564	625		925.0
55 □	135	91	350	400		623.9
	150		380	430	100	671.0
	200		480	530		828.0
	250		580	630		985.0
80 □	150		406	495		683.0
	200		506	595		840.0
	250	100	606	695	106	997.0
	300		706	795		1,154.0
	350		806	895		1,311.0
	400		906	995		1,468.0
45 □	125		314	375		532.5
	150		364	425		597.0
	175	67	414	475	70	689.5
	200		464	525		754.0
	250		564	625		925.0
55 □	150		380	430		671.0
	200		480	530	100	828.0
	250		580	630		985.0
SD 25 □	70	25	133	150		213.0
	100		173	190	28	275.8
	150		233	250		370.0
1520	28[26.3]	18	95	115	23	126.6
	34[31.3]		105	125		144.3
L2020	36[34]	20	120	150	25	156.8
	31[28.8]		115	145		150.4
2040	38[36.3]	20	130	160	30	174.0
	58[56.3]		170	200		236.8
L2050	31[29]	20	110	140	25	141.1
2540	60[57.8]	30	185	215	35	251.5
	85[82.8]		235	265		330.0
2560	60[57.8]	30	185	215	35	251.5
	85[82.8]		235	265		330.0
L2570	64[61.3]	30	185	215	35	262.5
2580	60[57.8]	30	185	215	35	251.5
	85[82.8]		235	265		330.0
L3050	46[44]	30	160	190	35	208.2
3560, 35100	75[71.3]	45	240	270	50	323.9
	100[98.8]		295	325		410.2
35100	115[113.8]	45	325	355	50	457.3

*As for SC Series, "R" value used for the calculation is inside [], which is different from "R" indication in the model code.