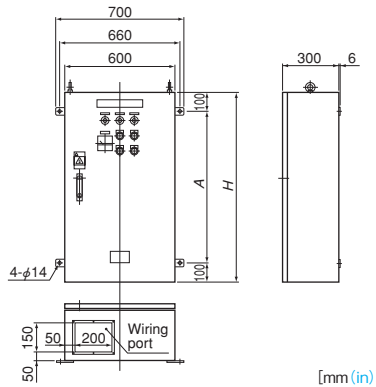


**Model BSTR CONTROL UNIT**

Indoor type

**New design slims the unit in size and volume by one third! Space saving and wall mountable!**



BSTR-90I

**Exchanging of electromagnet cooling oil**

**Models and required amount of oil**

Model	Amount(L)	Model	Amount(L)	Model	Amount(L)	Model	Amount(L)
BST- 65	80	BST- 90	120	BST- 115	265	BST- 150	450
BST- 80	100	BST-100	235	BST- 130	415	BST- 170	570

※Exchange oil once every five years.(It varies slightly depending on models and run hours.) As for special models, the amount depends on sizes of electromagnets. (Increased)

**Types of cooling oil (JIS C2320 Electrical Insulating Oils Type 1, No. 2, No. 4)**

※ The values are JIS Standard values.

Manufacturer (Brand)	Property	Total Acid Number (mgKOH/g)	Flashing Point (PM) °C	Specific Gravity 15/4°C	Breakdown Voltage (KV)
Idemitsu Kosan (Transformer Oil G)		0.02 max.	130 min.	0.91 max.	30 min.
Showa Shell Sekiyu (High Voltage Insulating Oil)					
Nippon Oil (Nippon Oil High Voltage Insulating Oil A)					
Exxon Mobile (Insulating Oil No. 2)					
JOMO (JOMO HS Trans N)					

※Cooling oil used by Kanetec (Idemitsu Kosan Transformer Oil G)  
 ※A type, using a cooling oil having a high flashing point, may also be available.

**We also provide air cooling type, which does not use coolant oil. Please contact us.**

Model	Power Source	Electromagne Output	Drive Motor Output	Dimensions		Construction	Mass			
				H	A					
BSTR-65I	50/60Hz 3φ	90 VDC 1.5kW	200VAC1.5kW	1000 (39.3)	800 (31.5)	Indoor, dustproof, wall mounting type	Approx. 70kg/154 lb			
BSTR-80I		90 VDC 2.4kW								
BSTR-90I		90 VDC 3.1kW								
BSTR-100I		180 VDC 4.0kW	200VAC2.2kW							
BSTR-115I		180 VDC 5.2kW								
BSTR-130I		270 VDC 6.6kW	200VAC3.7kW							
BSTR-150I		270 VDC 8.7kW								
BSTR-170I		180 VDC 10.4kW	200VAC5.5kW					1200 (47.2)	1000 (39.3)	Approx. 90kg/198 lb

※The outdoor type has partially different specifications.

**Model SPM SUSPENDED PERMANENT MAGNETIC SEPARATOR**

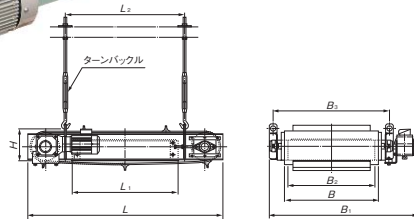
Fully automatic discharge type

Environmentally Friendly

**As for separation in wood material for biomass power generator!**



SPM-60F



※The shape of hanging bracket is different among SPM-100F, 120F, 65120~65160.

The suspended permanent magnetic separator employs a fully automatic discharge system by using a powerful permanent magnet. The operating method is similar to that of the suspended electromagnet separator. This model is suitable for removing iron from relatively thin layer of materials on a belt conveyor.

**[Application]**

Suitable for removing iron from raw materials used in the food industry, chemical industry and various other industries, and can also be installed in wastes sorting systems to remove iron.

**[Features]**

- Permanent magnet type, no DC power source is needed.
- Simple but robust construction for easy maintenance.
- The weather resistant construction allows this separator to be easily installed on existing outdoor conveyors.
- The permanent magnet system requires minimal maintenance cost.
- New line up has a longer body discharge and larger width for wider conveyor belts.
- An extra powerful type is also available.
- An overhead pulley suspension (parallel suspension) type is also available.
- An optional intrusion preventing plate is also available.

[mm (in.)]

Model	Corresponding Conveyor Belt Width <sup>(※1)</sup>		Corresponding Conveyor Installation Distance	Belt Width B	Overall Dimensions			Magnet Dimensions		Power Consumption Drive motor	Mass		
	Crosssuspension	Parallel suspension <sup>(※2)</sup>			L	B <sub>1</sub>	H	L <sub>2</sub>	B <sub>2</sub>			L <sub>1</sub>	B <sub>2</sub>
SPM-30F	—	400 (15.7)	90 (3.54) — 130 (5.11)	300 (11.8)	1000 (39.3)	677 (36.6)	248 (9.76)	440 (17.3)	470 (18.5)	400 (15.7)	250 (9.84)	0.4 kW	170kg / 374lb
SPM-40F	300 (11.8)	— 500 (19.6)	100 (3.93) — 150 (5.90)	400 (15.7)	1100 (43.3)	777 (30.6)		540 (21.2)	570 (22.4)	500 (19.6)	350 (13.7)		270kg / 595lb
SPM-60F	500 (19.6)	— 650 (25.5)	300 (11.8) — 450 (17.7)	600 (23.6)	1270 (50.0)	1015 (39.9)	242 (9.52)	700 (27.5)	770 (30.3)	650 (25.5)	490 (19.2)		390kg / 859lb
SPM-80F	650 (25.5)	— 800 (31.5)	500 (19.6) — 650 (25.5)	700 (27.5)	1470 (57.8)	1115 (43.9)		900 (35.4)	870 (34.2)	800 (31.5)	650 (25.5)	0.75kW	610kg / 1344lb
SPM-100F	800 (31.5)	— 1000 (39.3)	650 (25.5) — 800 (31.5)	900 (35.4)	1900 (74.8)	1435 (56.5)		1100 (43.3)	1170 (46.0)	1000 (39.3)	800 (31.5)		1150kg / 2535lb
SPM-120F	1100 (43.3)	— 1300 (51.1)	800 (31.5) — 950 (37.4)	1050 (41.3)	2200 (86.6)	1605 (63.1)	312 (12.2)	1400 (55.1)	1320 (51.9)	1300 (51.1)	950 (37.4)	1.5 kW	1600kg / 3527lb
SPM-65120	—	1050 (41.3)	—	700 (27.5)	1870 (73.6)	—		1000 (39.3)	—	1200 (47.2)	—		880kg / 1940lb
SPM-65140	—	1200 (47.2)	—	700 (27.5)	2070 (81.5)	1147 (45.1)	258 (10.1)	1200 (47.2)	890 (35.0)	1400 (55.1)	650 (25.5)	0.75kW	990kg / 2182lb
SPM-65160	—	1400 (55.1)	—	—	2270 (89.3)	—		1400 (55.1)	—	1600 (62.9)	—		1100kg / 2425lb

※The outdoor specification is the standard.

(※1) Belt conveyor width for each model is just reference. As the model to be selected can be different depending on flow width and volume to be treated, please consult with us.  
 (※2) The parallel suspension specification is optional.

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