

## HAISpeed10 CARTRIDGES

10mm I.D. Semi-Prep Cartridge Columns



### Guide to HAISpeed 10 Cartridge Part Numbers

- xF-0310-xxxx 30 x 10mm cartridge
- xF-0510-xxxx 50 x 10mm cartridge
- xF-1010-xxxx 100 x 10mm cartridge

See Page 23 for complete Part Number information

## HAISpeed10 - A high performance 10mm I.D. Cartridge System

High throughput requirements for combinatorial chemistry applications often call for 10mm I.D. columns. Higgins Analytical has developed a convenient cartridge system that offers an economical solution for demanding combinatorial and semi-preparative needs. Even though a HAISpeed10 cartridge costs a fraction of conventional 10mm HPLC column of the same length, they have the same consistently high performance of other Higgins Analytical columns.

Each 5cm and 10cm cartridge column is tested and is shipped with a CofA.

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## CLIQUEUS 10mm I.D. Semi-Prep Cartridges

### CLIQUEUS C18 10µm

#### 10mm I.D. s.s. Guard Cartridges

30x10mm	2/pkg
CF-0310-C181	\$275

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
CF-0510-C181	\$215	CF-1010-C181	\$270

### CLIQUEUS C18 5µm

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
CF-0510-C185	\$315	CF-1010-C185	\$395

## HAISIL 100 10mm I.D. Semi-Prep Cartridges



### HAISIL 300 C18 10µm

#### 10mm I.D. s.s. Guard Cartridges

30x10mm	2/pkg
HF-0310-W181	\$275

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
HF-0510-W181	\$215	HF-1010-W181	\$270

## HAISIL 300 10mm I.D. Semi-Prep Cartridges



### HAISIL 300 C18 5µm

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
HF-0510-W185	\$315	HF-1010-W185	\$395

## PROTO 200 10mm I.D. Semi-Prep Cartridges

200

### PROTO 200 C4 10µm

#### 10mm I.D. s.s. Guard Cartridges

30x10mm	2/pkg
RF-0310-D041	\$275

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
RF-0510-D041	\$215	RF-1010-D041	\$270

### PROTO 200 C4 5µm

#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
RF-0510-D045	\$315	RF-1010-D045	\$395

### PROTO 200 C18 10µm

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#### 10mm I.D. s.s. Semi-Prep Cartridges

50x10mm	1/pkg	100x10mm	1/pkg
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**PROTO 300 10mm I.D. Semi-Prep Cartridges**



**PROTO 300 C4 10µm**

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RF-0310-W041	\$275

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**PROTO 300 C18 5µm**

**10mm I.D. s.s. Semi-Prep Cartridges**

50x10mm	1/pkg	100x10mm	1/pkg
RF-0510-W185	\$315	RF-1010-W185	\$395

**PHALANX 10mm I.D. Semi-Prep Cartridges**



**PHALANX C18 10µm**

**10mm I.D. s.s. Guard Cartridges**

30x10mm	2/pkg
PF-0310-C181	\$275

**10mm I.D. s.s. Semi-Prep Cartridges**

50x10mm	1/pkg	100x10mm	1/pkg
PF-0510-C181	\$215	PF-1010-C181	\$270

**PHALANX C18 5µm**

**10mm I.D. s.s. Semi-Prep Cartridges**

50x10mm	1/pkg	100x10mm	1/pkg
PF-0510-C185	\$315	PF-1010-C185	\$395

**TARGA 10mm I.D. Semi-Prep Cartridges**



**TARGA C18 10µm**

**10mm I.D. s.s. Guard Cartridges**

30x10mm	2/pkg
TF-0310-C181	\$275

**10mm I.D. s.s. Semi-Prep Cartridges**

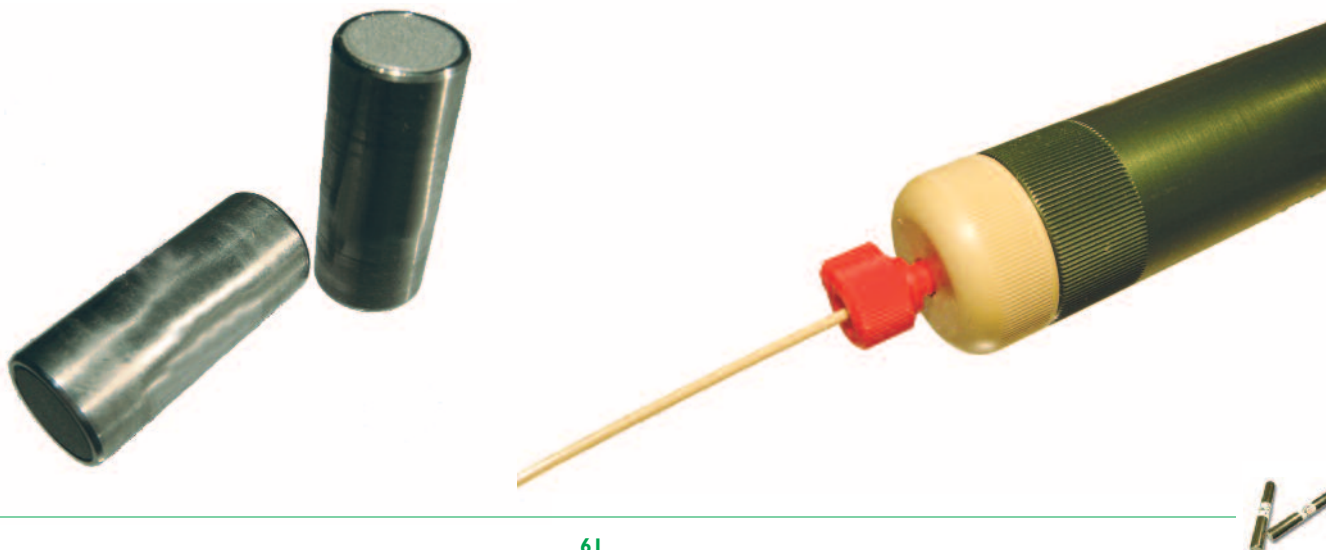
50x10mm	1/pkg	100x10mm	1/pkg
TF-0510-C181	\$215	TF-1010-C181	\$270

**TARGA C18 5µm**

**10mm I.D. s.s. Semi-Prep Cartridges**

50x10mm	1/pkg	100x10mm	1/pkg
TF-0510-C185	\$315	TF-1010-C185	\$395

See pages 66 - 67 for information about Cartridge Holders required for these Cartridges



# HAI Speed20 CARTRIDGES

20mm I.D. Prep Guard Cartridge Columns



HAI Speed20 guard cartridges provide unique Protection for 20mm I.D. prep columns.

“Prep is a dirty business,” and expensive columns can be quickly destroyed by crude samples if proper precautions are not taken. Higgins Analytical’s HAI Speed20 Prep Guard System provides effective column protection without compromising performance. In addition to an efficiently packed bed which retains strongly absorbing junk that would change the selectivity of the prep column, these unique guard cartridges have 0.5µm frits that remove particulate contaminants as well.

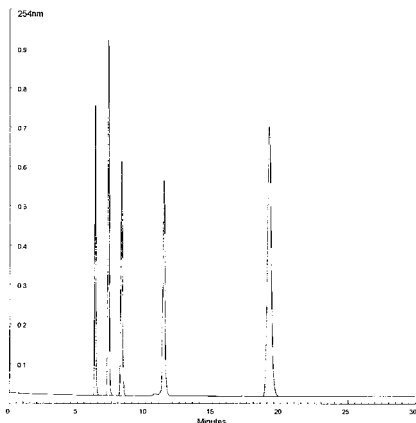
## Guide to HAI Speed 20 Cartridge Part Numbers

xF-0220-xxxx 25 x 20mm cartridge

See Page 23 for complete Part Number information

HAI Speed20 guard cartridges provide convenience and performance

**HAI SIL 100 C18 5µm**  
 Dimensions 250 x 20mm  
 Catalog No. HS-2520-M185  
 Serial No. 937306



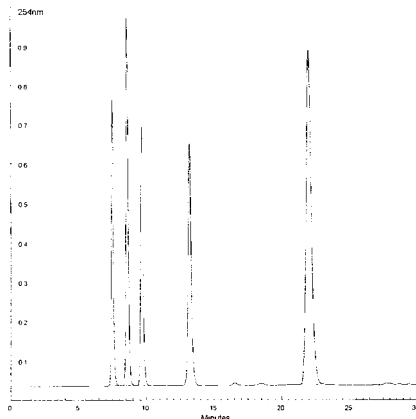
Catalog No.	HS-2520-M185		
Description:	HAI SIL 100 C18 5µm		
Dimensions:	250 x 20mm		
Sorbent Lot#:	A18143	Monofunctional/Endcapped	
Particle Size:	5µm		
Pore Size:	100 Å		
Mobile Phase:	70% Acetonitrile in Water		
Flow Rate:	10mL/min		
Pressure:	33 bar	Temp:	29.5 °C
Peak: IR(min)		Plates(N)	Skewness
# 1	6.31	Dimethyl Phthalate	21,383 0.217
# 2	7.28	Nitrobenzene	21,020 0.164
# 3	8.25	Anisole	20,183 0.190
# 4	11.36	Diphenylamine	
# 5	19.16	Fluorene	18,694 0.161

File: 072 26/3



Typical 250x20mm HAI SIL 100 C18 5µm Test Chromatogram.

**HAI SIL 300 C18 12µm**  
 Dimensions 25 x 20mm  
 Catalog No. HF-0220-W182  
 Batch No. 260402



Coupled to

**HAI SIL 100 C18 5µm**  
 Dimensions 250 x 20mm  
 Catalog No. HS-2520-M185

Catalog No.	HF-0220-W182		
Description:	HAI SIL 300 C18 12µm		
Dimensions:	25 x 20mm		
Sorbent Lot#:	P25076	Monofunctional/Endcapped	
Particle Size:	12µm		
Pore Size:	300 Å		
Mobile Phase:	70% Acetonitrile in Water		
Flow Rate:	10mL/min		
Pressure:	bar	Temp:	28.5 °C
Peak: IR(min)		Plates(N)	Skewness
# 1	7.50	Dimethyl Phthalate	10,655 0.328
# 2	8.59	Nitrobenzene	10,725 0.298
# 3	9.67	Anisole	11,094 0.294
# 4	13.19	Diphenylamine	
# 5	22.01	Fluorene	12,886 0.238

File: 172 26/4



The same 250x20mm 5µm column shown in the top chromatogram retested with a HAI SPEED 20 Guard Cartridge in line.



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**HAISIL 100 20mm I.D. Prep Guard Cartridges** 

<b>HAISIL 100 C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	HF-0220-M181	\$295	HF-0320-M181	\$150	HF-0520-M181	\$200

**CLIPEUS 20mm I.D. Prep Guard Cartridges** 

<b>CLIPEUS C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	CF-0220-C181	\$295	CF-0320-C181	\$150	CF-0520-C181	\$200

**HAISIL 300 20mm I.D. Prep Guard Cartridges** 

<b>HAISIL 300 C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	HF-0220-W181	\$295	HF-0320-W181	\$150	HF-0520-W181	\$200

**PROTO 200 20mm I.D. Prep Guard Cartridges** 200 

<b>PROTO 200 C4 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-D041	\$295	RF-0320-D041	\$150	RF-0520-D041	\$200

<b>PROTO 200 C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-D181	\$295	RF-0320-D181	\$150	RF-0520-D181	\$200

**PROTO 300 20mm I.D. Prep Guard Cartridges** 

<b>PROTO 300 C4 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-W041	\$295	RF-0320-W041	\$150	RF-0520-W041	\$200

<b>PROTO 300 C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-W181	\$295	RF-0320-W181	\$150	RF-0520-W181	\$200

**PHALANX 20mm I.D. Prep Guard Cartridges** 

<b>PHALANX C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	PF-0220-C181	\$295	PF-0320-C181	\$150	PF-0520-C181	\$200

**TARGA 20mm I.D. Prep Guard Cartridges** 

<b>TARGA C18 10µm</b>	<b>20mm I.D. s.s. Prep Guard Cartridges</b>					
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	TF-0220-C181	\$295	TF-0320-C181	\$150	TF-0520-C181	\$200

**Both a Filter and a Guard**

The 0.5µm pore size frits on HAI Speed20 cartridges provide unique built-in filtration for maximum column protection. These cartridges are shipped with end caps that prevent solvent loss and protect the cartridge and frits.



**NEW**  
35x20mm and 50x20mm  
Even greater capacity  
for trapping and  
purification

