

ASTOTHERM[®] *plus*

Safe and Efficient Infusion & Blood Warmers

Used with Astotube[®]
low-cost standard
extension tubing, for
economical operation.

Heat protection sleeve
guards against the effects
of external temperatures
to prevent heat loss.
(Standard on AP220S,
AP260, and AP260S.
Optional on AP220.)

Adjustable
temperature setting
allows for variable
heating.

Audio and Visual
over and under
temperature alarms,
monitored by three
independent sensors,
ensure patient safety.

Illuminated digital
temperature display
shows the actual and
set temperature and is
easily read from
anywhere in the room.

Astoline continues to warm
fluids to patient cannula.
Open design allows for
observation of fluid to
patient. (Standard on
AP220S and AP260S.)

FUTUREMED[®]

ASTOTHERM[®] *plus* 220

Economy without sacrificing quality



The most economical model in the Astotherm *plus* line, the AP220 offers the high quality, low-cost operation medical professionals need for basic blood and infusion warming. The warmer can be ready to use in under one minute, is designed for continuous operation, and is suitable for 97% of clinically relevant transfusion and infusion rates.

Astotherm *plus* 220 features:

- Temperature selection: 39°C/41°C/43°C
- Excessive temperature alarms monitored by three independent sensors
- Rapid insertion groove for Astotube extension line
- Optimum heat transfer
- Microprocessor controlled
- Audio and visual alarm self-test initiated when warmer is turned on
- Dry heat warming is easy to clean and inhibits bacteria growth
- Heat protection sleeve available

ASTOTHERM[®] *plus* 220S

High performance for optimum care

Astotherm *plus* 220S provides all the performance of the standard AP220 model with additional features to accommodate a wider range of flow rates. As fluid leaves the main body of the warmer, the Astoline heating profile continues warming up to the patient cannula, preventing cool down and ensuring delivery at an optimal temperature.

Astotherm *plus* 220S features:

- All standard elements of Astotherm 220
- Temperature selection
- Over-temperature cut-off
- Special groove for rapid tube insertion
- Astoline, the 130cm heated profile
- Heat protection sleeve included



ASTOTHERM[®] *plus* 260/260S

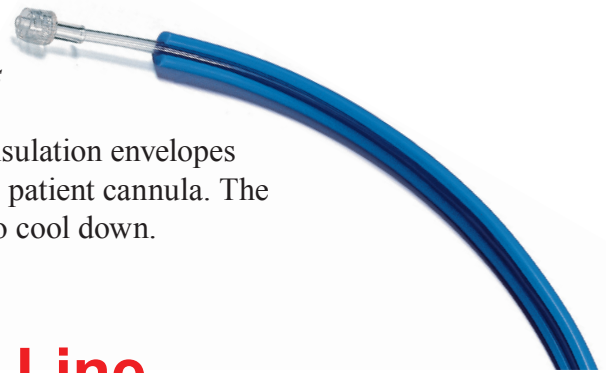
For oversize tubing

Identical in performance to the Astotherm *plus* AP220/220S, the AP260/260S is designed for use with larger diameter tubing (6.8mm). AP260/260S is well suited for blood and infusion warming applications such as dialysis, hemofiltration, urology, and rinsing solutions of all kinds.



ASTOLINE Heating Profile

The Astoline heating profile works in tandem with Astotherm *plus* models 220S and 260S to maintain fluids at constant temperatures throughout the infusion or transfusion process. This lightweight insulation envelopes the standard tubing and protects against cooling all the way to the patient cannula. The result is efficient warming, even at the lowest of flow rates, with no cool down.



ASTOTUBE[®] PVC Extension Line




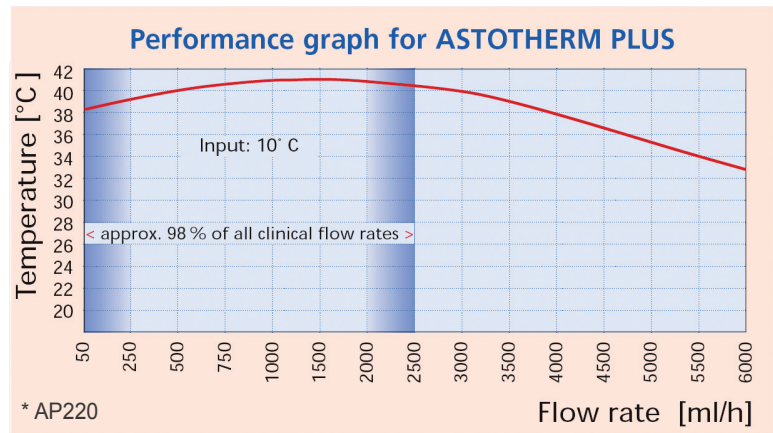
Astotube is a sterile extension line for use with all Astotherm warmers. Set up is quick and simple. This economical tubing set is a fraction of the cost of other proprietary disposables or cassettes, and will provide significant savings. Available in 4 mm diameter with a priming volume of 37.5 ml (for use with AP220) and 6.8 mm diameter with a priming volume of 89 ml (for use with AP260).

Astotherm *plus* is Ideal for Preventing Hypothermia, and Well-Suited for Most Applications, including Transfusions, Infusions, Dialysis, Hemofiltration, and Apheresis.

ASTOTHERM[®] *plus*

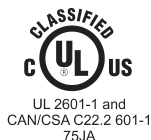
Technical Specifications

- Electrical connection: 100-115 VAC \pm 10%, 50-60 Hz (230-240 VAC \pm 10%, 50-60 Hz)
- Power consumption: 450 VA
- Power supply cord: Hospital Grade Plug, NEMA, 5-15P, SJO, SJT 18/3
- Over-temperature safety cut-off
- Over-temperature alarm: Visual and acoustic
- Under-temperature alarm: Visual and acoustic
- Temperature control: 39° C / 41° C / 43° C
- Custom temperature control available
- Heating up time (20°-35° C): Approximately 1 minute
- Operating mode: Continuous operation
- Dimensions (Width x Height x Depth): 135 x 145 x 295 mm / 5.31" x 5.71" x 11.61"
- Weight: 2.9 kg / 6.39 lbs.
- Protection class: I
- Protection level:  B, defibrillation-protected
- Moisture protection: IPX 4
- Classification as per European directive 93/42: II b
- Notified body: CE 0124
- Complies with: IEC 601-1
- Health Canada, UL, and FDA listed



Ordering Information

	ASTOTHERM <i>Plus</i>			
Model #	AP220	AP220S	AP260	AP260S
ASTOLINE active insulation	----	Standard	----	Standard
Temperature setting	Selectable 39° C / 41° C / 43° C			
Diameter of line	4 mm		6.8 mm	
Heat protection sleeve	Optional Accessory	Standard Accessory		
Heat protection sleeve order #	WM 226			
ASTOLINE (spare) order #	----	AL 222	----	AL 260
ASTOTUBE, PVC, order #	IFT 30460		IFT 30410	



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FUTUREMED[®]

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