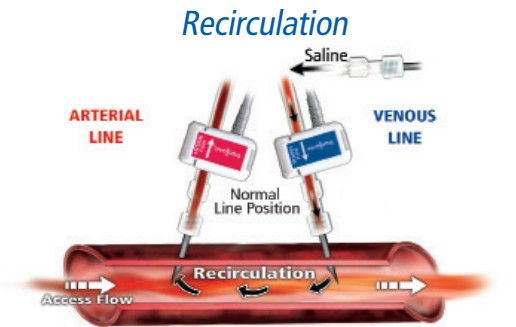
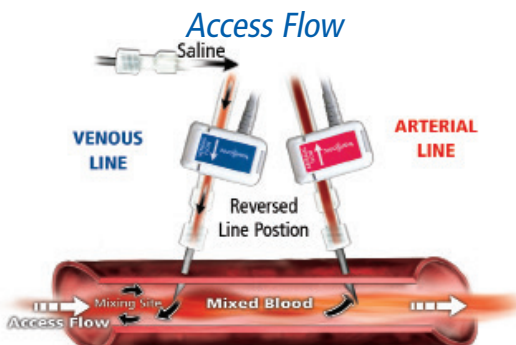




Transonic HD03



If Recirculation is present, the diluted venous blood is pulled backwards into the arterial bloodline, reducing the adequacy of dialysis.



Krivitski Method: When the bloodlines are reversed, saline enters the vascular access and dilutes the incoming blood. The mixed blood is detected by the arterial sensor and Access Flow is measured.



USA/Canada

Transonic Systems Inc.®
Tel: +1 607-257-5300
Fax: +1 607-257-7256
support@transonic.com

Asia/Pacific

Transonic Asia Inc.
Tel: +886 3399-5806
Fax: +886 3399-5805
support@transonicasia.com

Europe



Transonic Europe B.V.
Tel: +31 43-407-7200
Fax: +31 43-407-7201
europe@transonic.com

Japan

Nipro-Transonic Japan Inc.
Tel: +81 04-2946-8541
Fax: +81 04-2946-8542
japan@transonic.com



Trasonic HD03 Measurements

On the Spot Vascular Access Assessment to Optimize Treatment

- **Confirm Delivered Flow**
- **Detect Recirculation**
- **Measure Access Flow**

Delivered Flow

Delivered flow can differ from the dialysis pump setting. It is important to compare the pump setting to the actual circuit flow so that you can optimize your dialysis patient's treatment on the spot.

Recirculation

The HD03 separates vascular access recirculation from cardiopulmonary recirculation (CPR). The HD03 measures the actual percentage of recirculation.

Vascular Access Flow

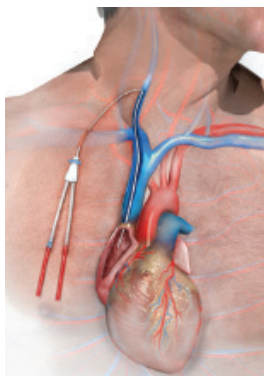
The HD03 measures Access Flow up to 4000 mL/min. Changes in the Access Flow can indicate access dysfunction, including inflow stenosis and outflow stenosis. The Access Flow measurements are used to trend changes over time and to confirm other clinical indicators, including physical exam indications of dysfunction.



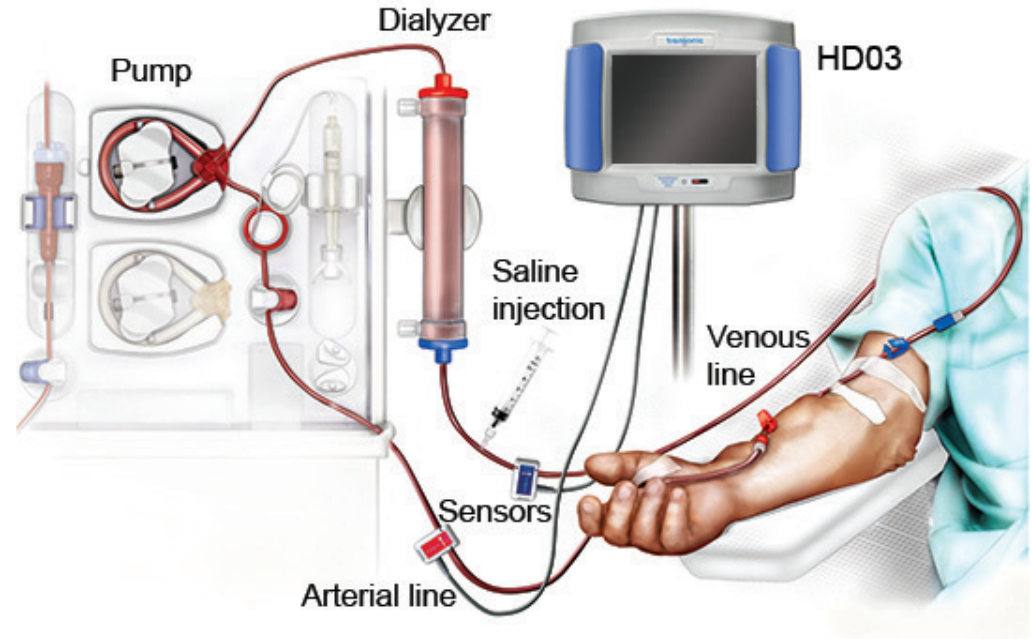
AV Fistula



Loop AV Graft



Central Venous Catheter



Trasonic Measurement	Hemodialysis Catheter (CVC)	AV Fistula or AV Graft (AVF or AVG)
Delivered Flow	✓	✓
Recirculation	✓	✓
Access Flow		✓