

# TurboDraft™

F I R E E D U C T O R

## TurboDraft 'CS'

The TurboDraft CS (Changeable Strainer) provides departments the option to connect to a wide selection of standard 6" NH strainers to meet any water supply situation.

- Low level strainers to assist with water transfer during portable tank operations.
- Barrel or box style strainers.
- Ice strainers - providing for safer and more efficient access when drafting through holes in the ice created with augers.
- Improve effectiveness of dry hydrants and vertical suction standpipes.

### TurboDraft CS Performance

Table 1

Distant Water Source Situation <sup>1,2,3</sup> for 5" Unit			
Length of 5" Hose	Lift	Pump Discharge Pressure	Available Fire Flow <sup>1,2</sup>
50	10	165 psig	670 GPM
	20	165 psig	470 GPM
100	10	170 psig	570 GPM
	20	170 psig	400 GPM
150	10	175 psig	480 GPM
	20	175 psig	325 GPM
200	10	180 psig	440 GPM
	20	180 psig	280 GPM

Values listed reflect the minimum available flow rate in gallons per minute.

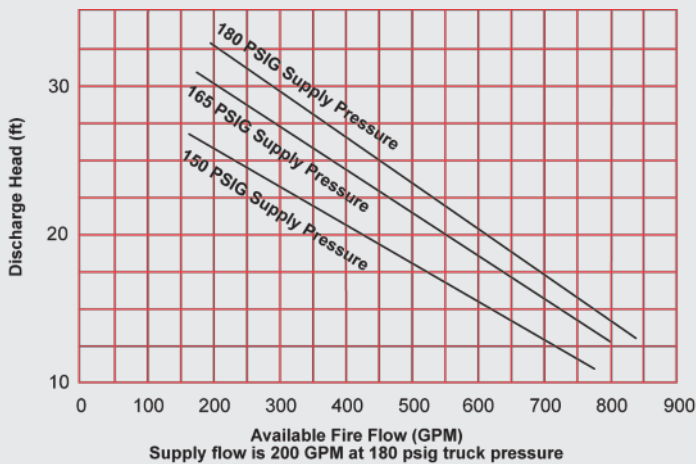
NOTE: Using 6" large diameter hose line can increase usable flow by decreasing line friction loss.

<sup>1,2,3</sup> See back for details.



Model #  
TD500CS

## TurboDraft Performance for 5" Unit



<sup>1</sup> Theoretical, based on test curves of 9/21/99 and hose friction loss per NFPA® Fire Protection Handbook, 15th Edition, Table 17-7H, actual friction losses may vary depending upon hose and coupling design/manufacturer.

<sup>2</sup> All flows achievable with 1,000 GPM rated pumper based on NFPA recommended pump curves. Use larger pumper where maintenance/performance is questionable.

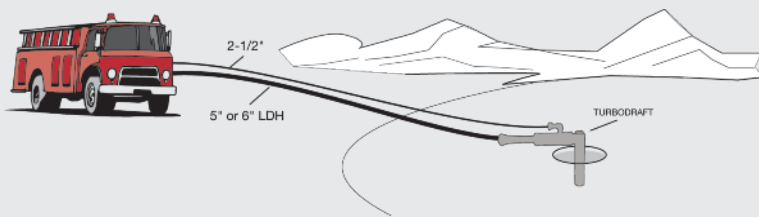
<sup>3</sup> Minimum available flow from a water source recognized by ISO for grading purposes is 250 GPM. ISO does not recognize drafting sources requiring a lift in excess of 18' (This is not a drafting device as it operates under pressure.)

Fire Departments are in constant need of creative solutions for solving water supply demands in rural areas or communities without substantial municipal water systems. Schutte & Koerting's TurboDraft CS (Changeable Strainer) flexible design provides multiple options for accessing static water sources outside the reach of traditional hard suction drafting techniques.

The unit is easy to deploy in emergency flood situations such as dewatering basements, truck docks, below-ground vaults and tanks, as well as marine vessels.

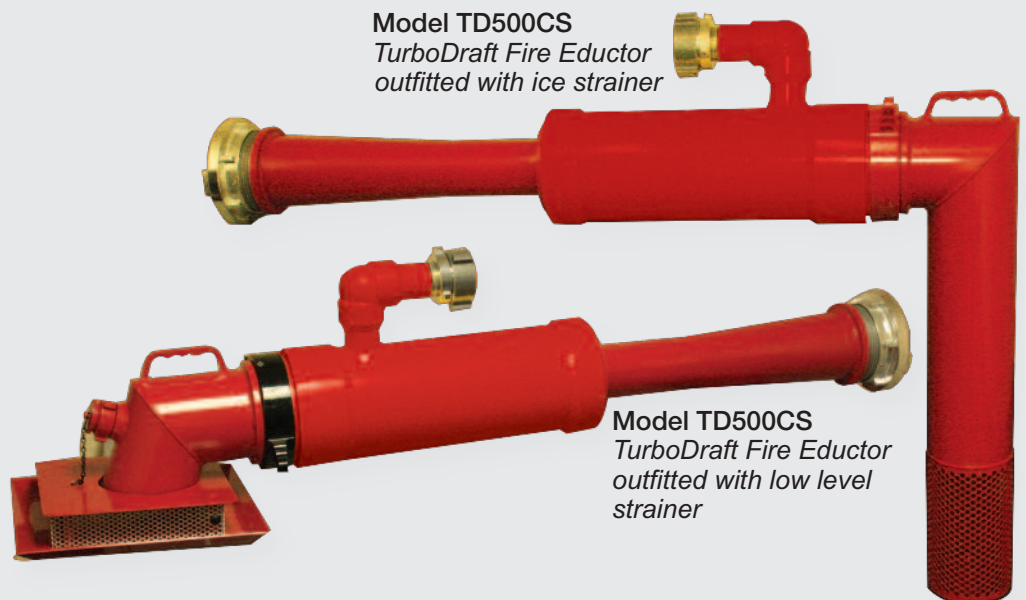
The unit requires a standard 2½" NH coupled hose line flowing 200 gpm @ 150 psi. This delivered flow rate creates the Venturi effect, educting over three times this volume as the usable fire flow or dewatering amount. This larger volume is returned over 5" or 6" large diameter hose (LDH).

## Access through the ice



Outfitted with an ice strainer, the TurboDraft CS eductor provides quick access to frozen static sources. TurboDraft's ability to transfer large volumes of water in a short amount of time makes it a critical piece of equipment.

Model TD500CS  
TurboDraft Fire Eductor  
outfitted with ice strainer



Model TD500CS  
TurboDraft Fire Eductor  
outfitted with low level  
strainer



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