



# THE FLEET IS COMPLETE

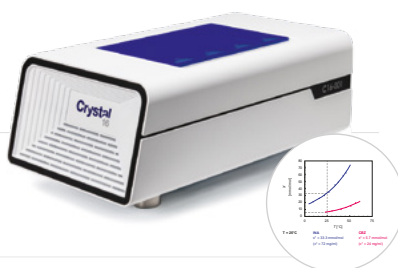
We are proud to present the Technobis Crystallization Systems workflow. Users are now able to perform fully controlled crystallization studies from hit identification and lead optimization up through process scale up. Combine the **CrystalBreeder**, **Crystal16** and **Crystalline** in a flexible configuration to optimize solid-state success!



## Crystal BREEDER

### Discover

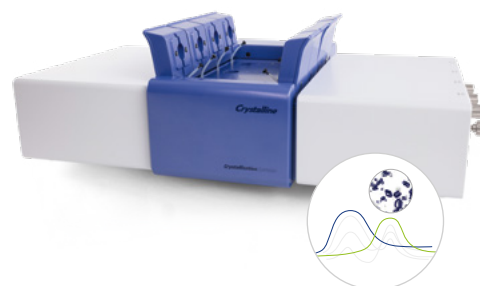
- Single crystal growth
- Crystallization & polymorph screening
- Solubility screening



## Crystal 16

### Screen

- Solubility & MSZW determination
- Solvents selection
- Solubility mapping
- Phase diagrams
- Polymorphs, salt and co-crystals



## Crystal LINE

### Optimize

- Crystallization process optimization
- Form & habit control
- Particle size determination
- Formulation process optimization
- Stability of liquid formulations

PRODUCT SHEET **DISCOVER, SCREEN AND OPTIMIZE**

**Technobis**  
CRYSTALLIZATION SYSTEMS



Specifications	CrystalBreeder	Crystal16	Crystalline
Feedback control	Yes	Yes	No
Reactors	32	16	8
Reactor type	Commercially available, glass	Commercially available, glass	Commercially available, glass or quartz
Optimal work volume (mL)	0.06 to 0.1	0.5 to 1.0	2.5-5 ml
Temperatures zones	8	4	8
Temperature range (°C)	-15 to 150 <sup>1</sup>	-25 to 150 all 4 block reactors in parallel <sup>2</sup>	-25 to 145 <sup>3</sup>
Temperature accuracy (°C)	0.1	0.5	0.1
Heating rate (°C/min)	0 - 20	0 - 20	0 - 20
Cooling rate (°C/min)	0 - 20	0 - 20	0 - 20
Stirring	Overhead or stirrer bar	Overhead or stirrer bar	Overhead or stirrer bar
Stirring speed (rpm)	0 - 1250	0 - 1250	0 - 1250
Evaporation option	Yes, with evaporation flow per block of 4 reactors	No	Yes, with evaporation flow per reactor
Vapor diffusion option	Yes	No	No
Turbidity (%)	Every reactor	Every reactor	Every reactor
Chiller necessary (°C)	No	Optional, required to achieve -25 in all 4 reactors in parallel	Yes
Camera's	-	-	4 or 8
Camera resolution (µm/pixel)	-	-	7.5, 3.75, 1.875
Particle size information	-	-	Yes
Raman	-	-	Yes, compatible with most Raman spectrometers (785nm)
Data export	CrystalClear, Word Report, XML	CSV, Word Report, XML	CrystalClear, Word Report, XML
Footprint (DxWxH)	49x56x20	50x28x18.5	53x51x20

<sup>1</sup> Minimum temperature reached in 1 block reactor is -15°C, and -10°C when all 8 block reactors are in use.

<sup>2</sup> Chiller required to reach -25°C, otherwise -20°C is achieved.

<sup>3</sup> Minimum temperature reached in 4 reactors is -25°C, and -20°C when all 8 reactors are in use.

## Technobis Crystallization Systems workflow

