

SUPERCRITICAL CO₂ EXTRACTION SYSTEMS LEVEL 1 (5L)

Buffalo Extraction Systems: Everything Cannabis.

Contact Us

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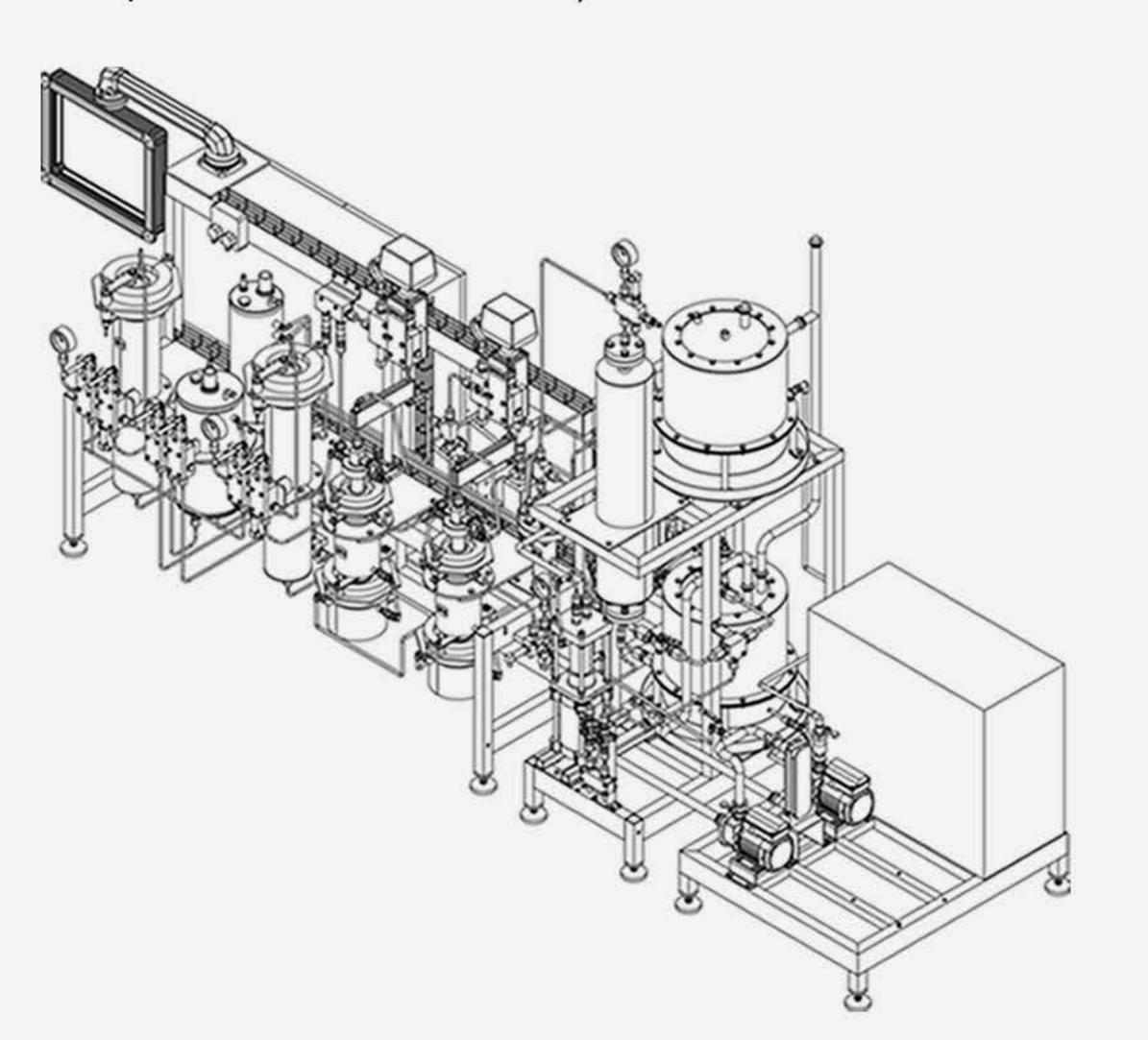


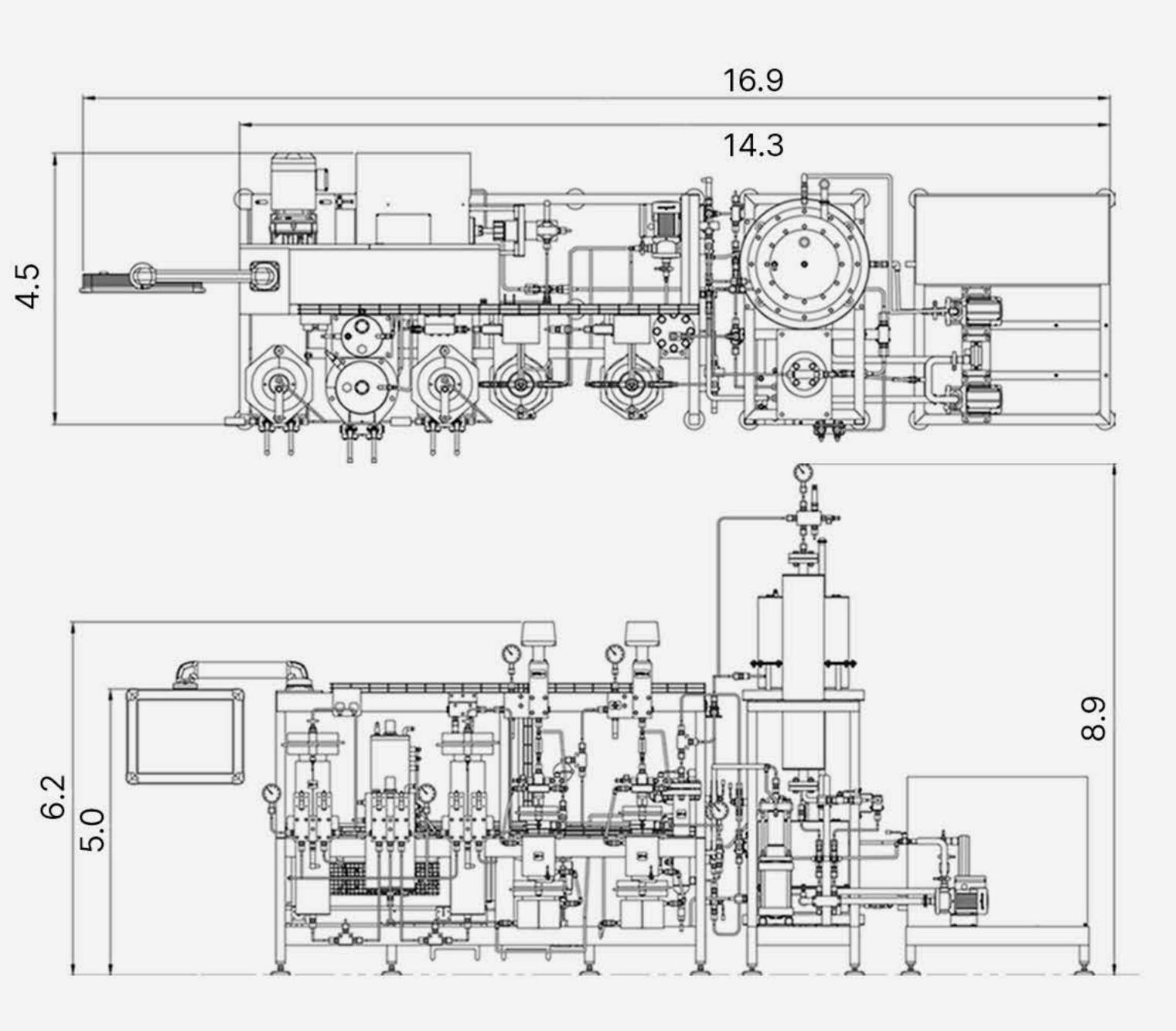


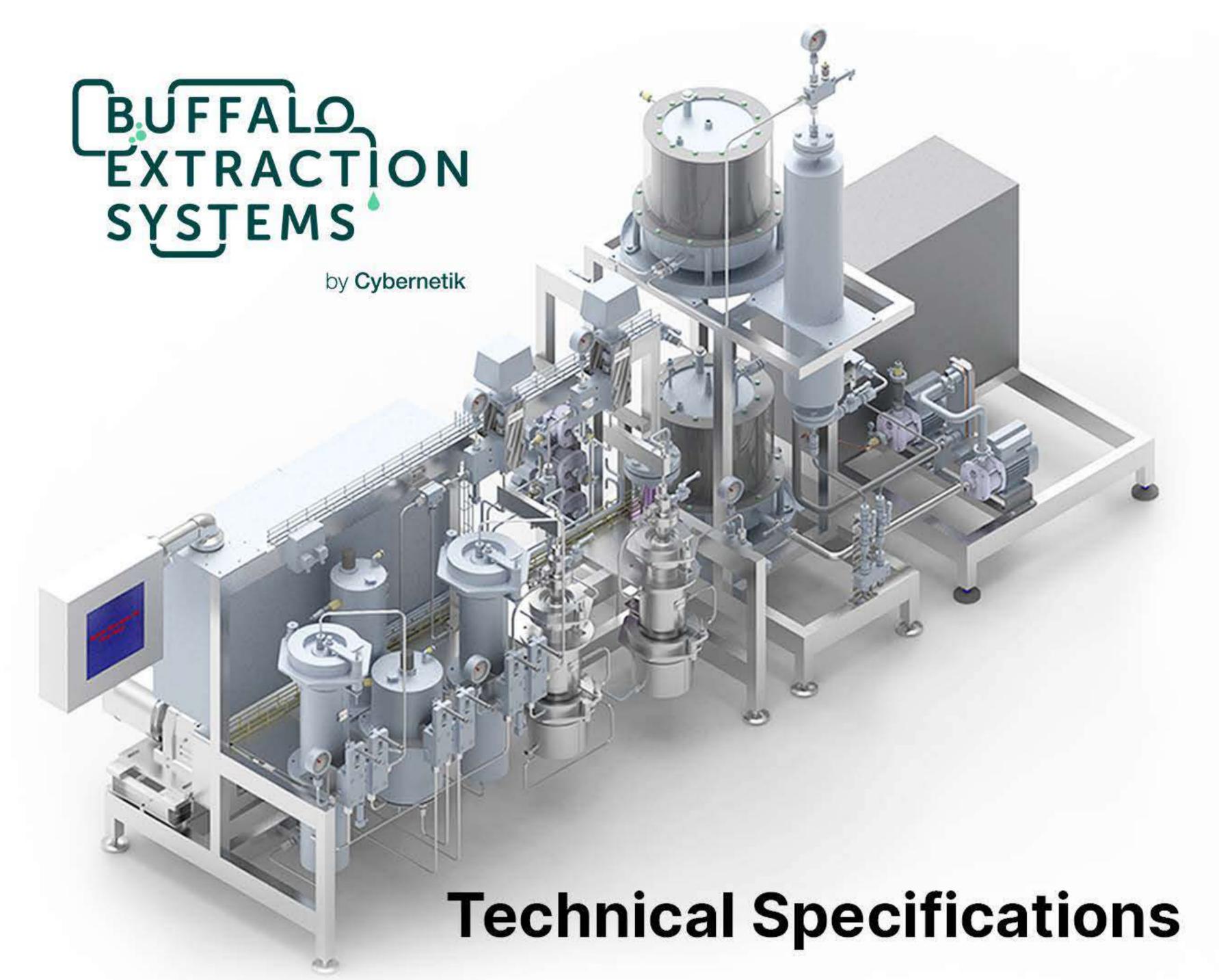


Engineering Layout

(all dimensions in feet)







Level 1 CO, SCFE System

Buffalo Extraction Systems' Level 1 Systems are ideal for THC and high valve CBD crude oil extraction with a capacity to process 20 kg/day at sub-critical and super-critical process parameters.

Parameter	5L x 2	5L x 3
Single Extractor Volume (Liter)	5	5
Total System Volume (Liter)	10	15
Biomass Processing Capacity (kg/lbs per day)	20/44	35/77
Flow Rate of CO ₂ Pump (LPH)	50	50
Maximum Extraction Pressure (Bar/PSI)	350/5000	350/5000
Maximum Extraction Temperature (°C/°F)	70/158	70/158
Separation Pressure Range (Bar/PSI)	70 - 200/ 900 - 2900	70 - 200/ 900 - 2900
Separation Temperature Range (°C/°F)	20 - 50/ 70 - 122	20 - 50/ 70 - 122
CO ₂ Recirculation	Yes	Yes
Extractor Changeover Valves	Automatic	Automatic
CO ₂ Loss Per Batch (kg)	0.15	0.15
Area Required (m/ft)	4.88 × 1.37 × 2.44/ 16 × 4.5 × 8	6 × 1.5 × 2.44/ 20 × 4.5 × 8
Power Consumption (kW)	10.8	10.8
Number Of Extractors	2	3
Extractor Usage	Single	Single Or Series
Co-Solvent Pump	Yes (Optional)	Yes (Optional)
CO ₂ Feeding And Recovery System (For CO ₂ Storage After Batches)	Included	Included
CIP System	Included	Included

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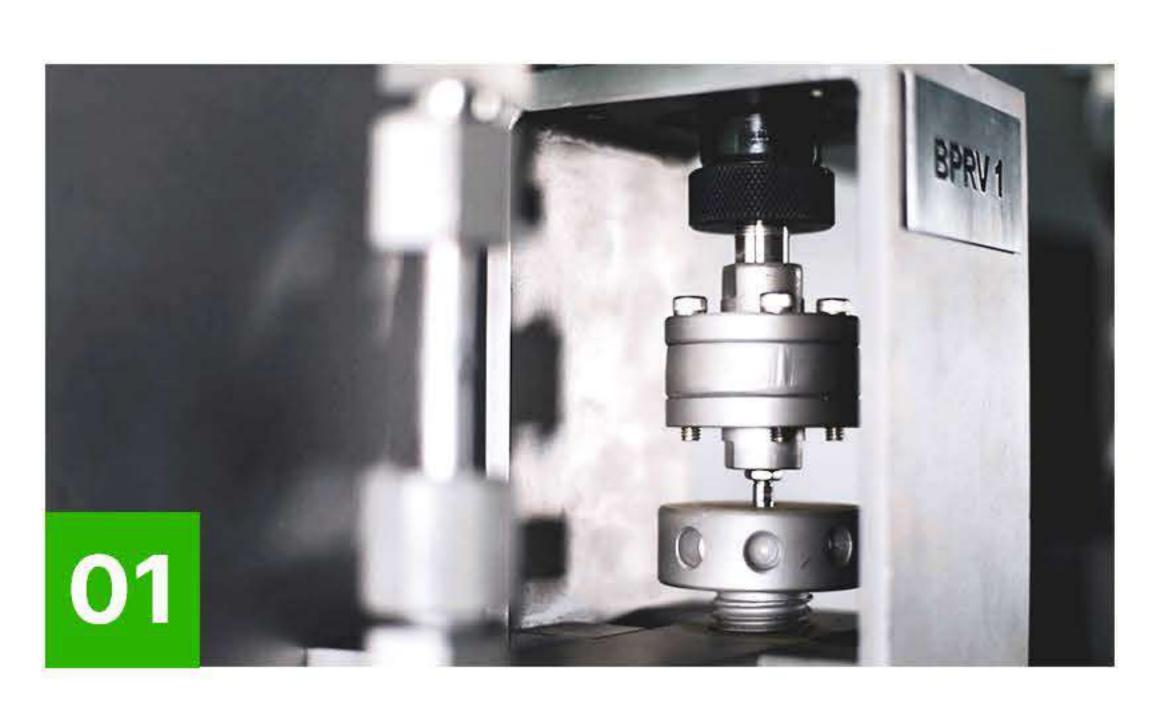
Certifications







System Features



Precise Pressure Control that guarantees consistent solvent solubility for targeted extraction



Consistent Flow Control of the pump speed delivers highest levels of extraction efficiency



Superior Sealing Technology ensures minimum downtime and reduced maintenance



Unique Extractor Closure Design for rapid batch changeovers with minimal interruption

2.5 kg

Extractor Processing Capacity Per Batch

350 Bar (5000 PSI)

Max. Extraction Pressure

70° C (158° F)

Max. Extraction Temperature



Special Separator Design

for easy collection of highly resinous and low-viscosity products



Proprietary Changeover Valves

for quick changeovers and isolations, even at high pressures



Intuitive Intelligence

with proprietary Tablet APP enabling recipe-based control, remote monitoring and maintenance



SUPERCRITICAL CO₂ EXTRACTION SYSTEMS LEVEL 2 (25L)

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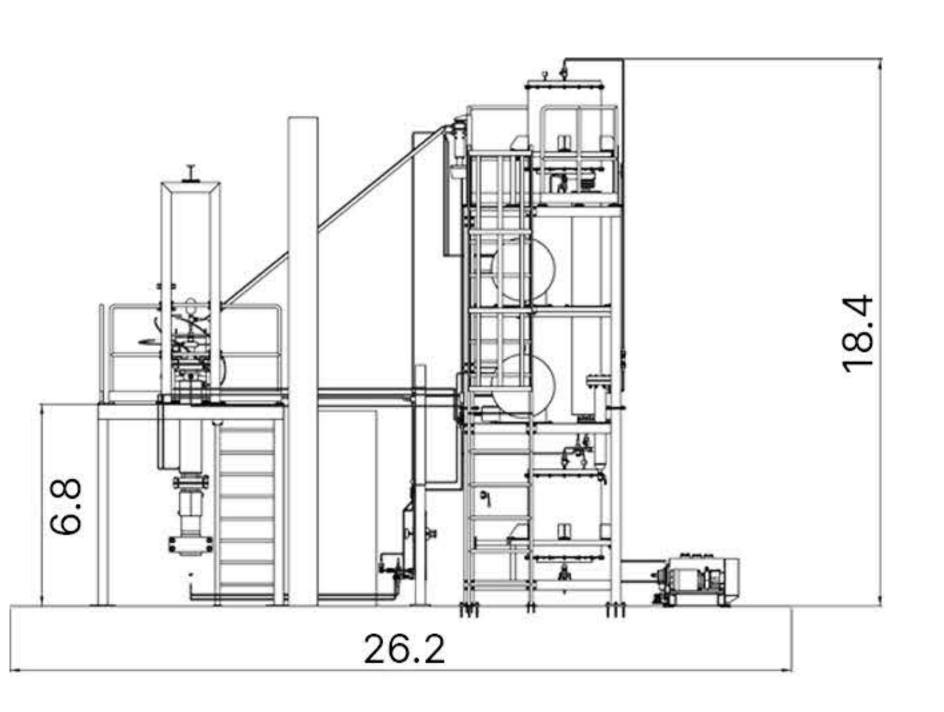


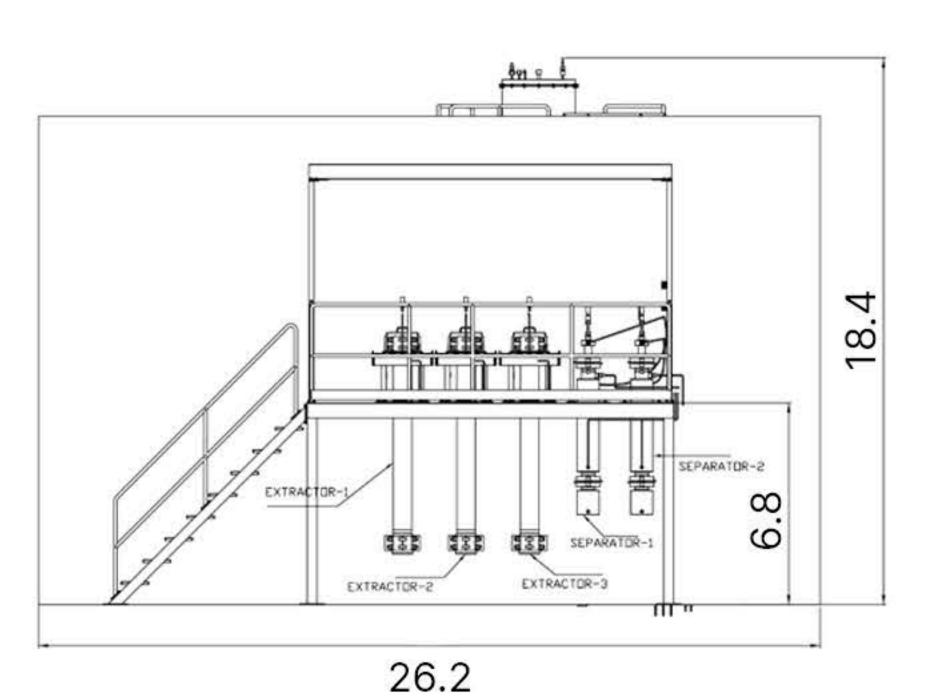


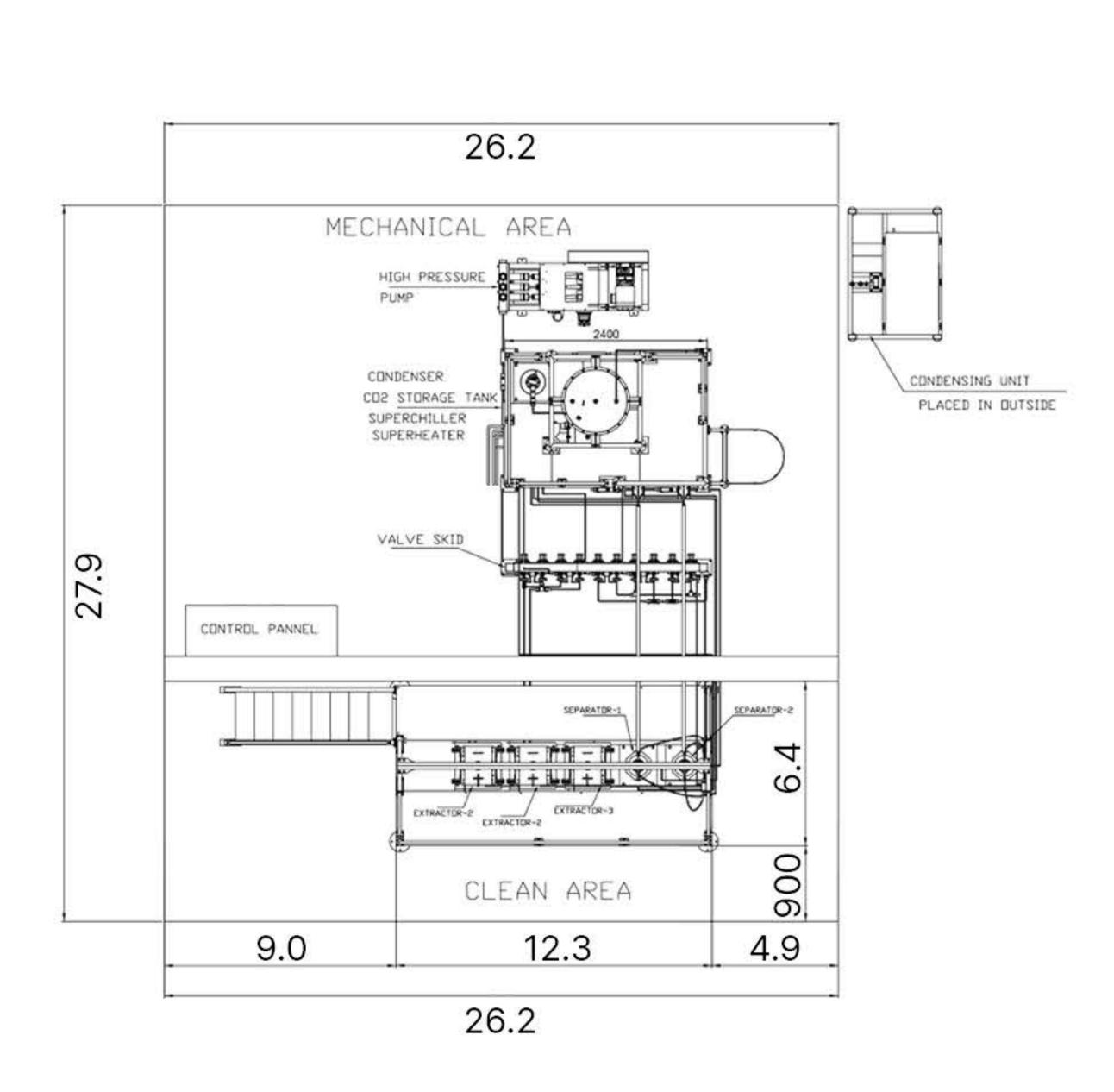


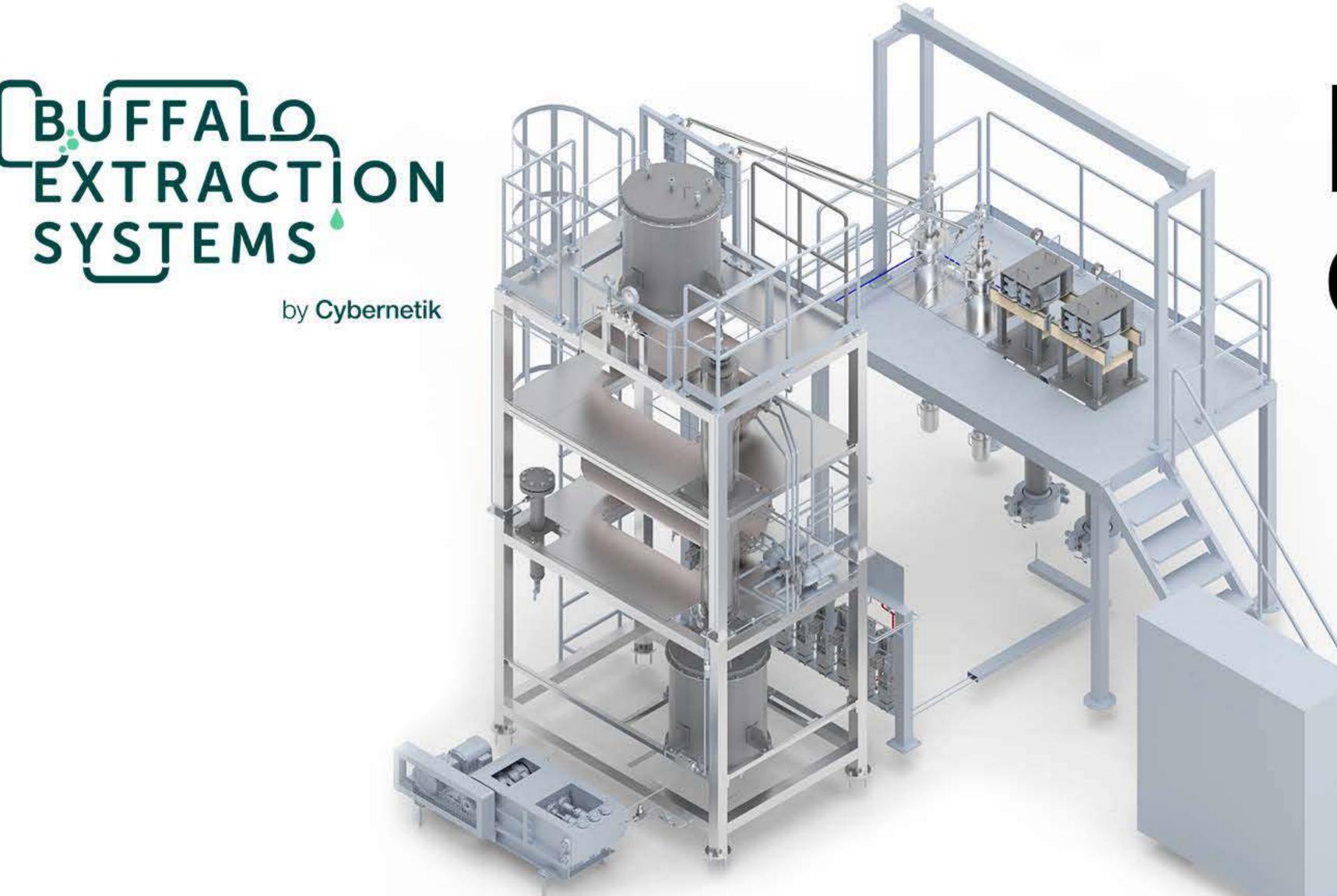
Engineering Layout - 25L x 3 System

(all dimensions in feet)









Level 2 CO₂ SCFE Systems

Buffalo Extraction Systems' Level 2
Systems are ideal for THC and high valve
CBD crude oil extraction with a capacity
to process 100 kg/day with 25L x 2
Automatic and 180 kg/day with 25L x 3
Automatic systems at sub-critical and
super-critical process parameters.

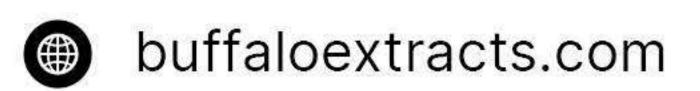
Technical Specifications

Parameter	25L x 2	25L x 3
Single Extractor Volume (Liter)	25	25
Total System Volume (Liter)	50	75
Biomass Processing Capacity (kg/day)	100	180
Flow Rate of CO ₂ Pump (LPH)	180	180
Maximum Extraction Pressure (Bar/PSI)	350/5000	350/5000
Maximum Extraction Temperature (°C/°F)	70/158	70/158
Separation Pressure Range (Bar/PSI)	70 - 200/ 900 - 2900	70 - 200/ 900 - 2900
Separation Temperature Range (°C/°F)	20 - 50/ 70 - 122	20 - 50/ 70 - 122
CO ₂ Recirculation	Yes	Yes
Extractor Changeover Valves	Automatic	Automatic
CO ₂ Loss Per Batch (kg)	0.75	0.75
Area Required (m/ft)	8 × 2.8 × 5.6/ 26 × 27 × 18.5	8 × 2.8 × 5.6/ 26 × 27 × 18.5
Power Consumption (kW)	33	33
Number Of Extractors	2	3
Extractor Usage	Single	Single Or Series
Co-Solvent Pump	Yes (Optional)	Yes (Optional)
CO ₂ Feeding And Recovery System (For CO ₂ Storage After Batches)	Included	Included
CIP System	Included	Included

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Certifications







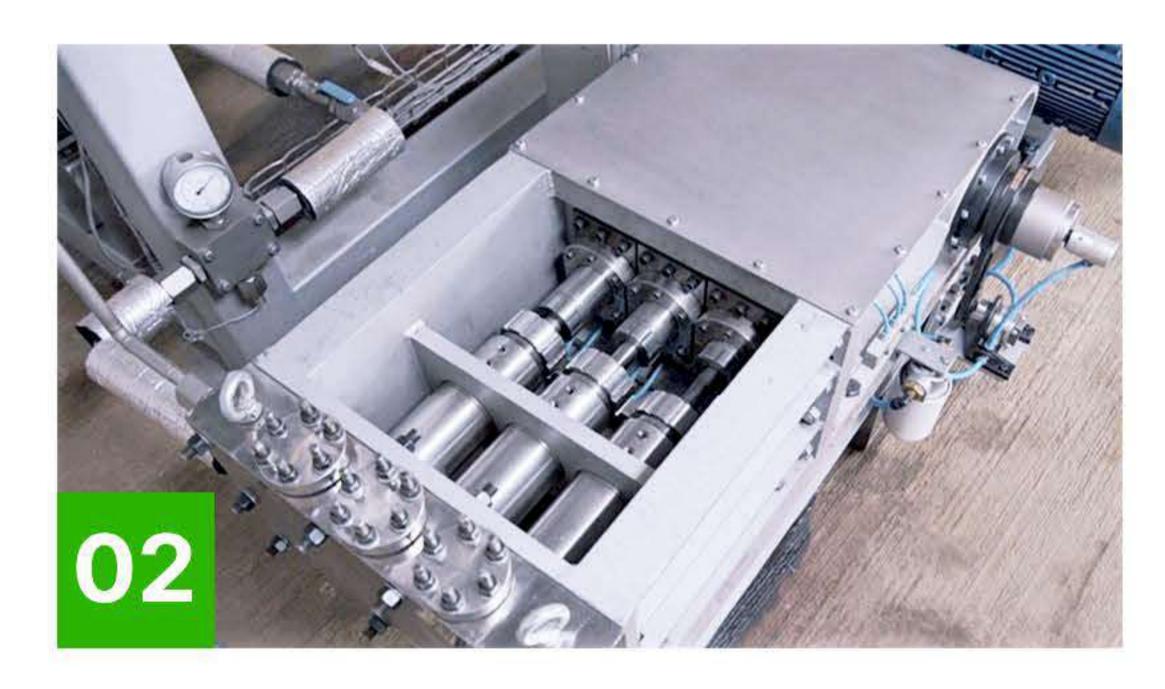


CGMP

System Features



Precise Pressure Control
that guarantees consistent solvent
solubility for targeted extraction



Consistent Flow Control
of the pump speed delivers highest
levels of extraction efficiency



Superior Sealing Technology ensures minimum downtime and reduced maintenance



Unique Extractor Closure Design for rapid batch changeovers with minimal interruption

12.5 kg

Extractor Processing Capacity Per Batch

350 Bar (5000 PSI)

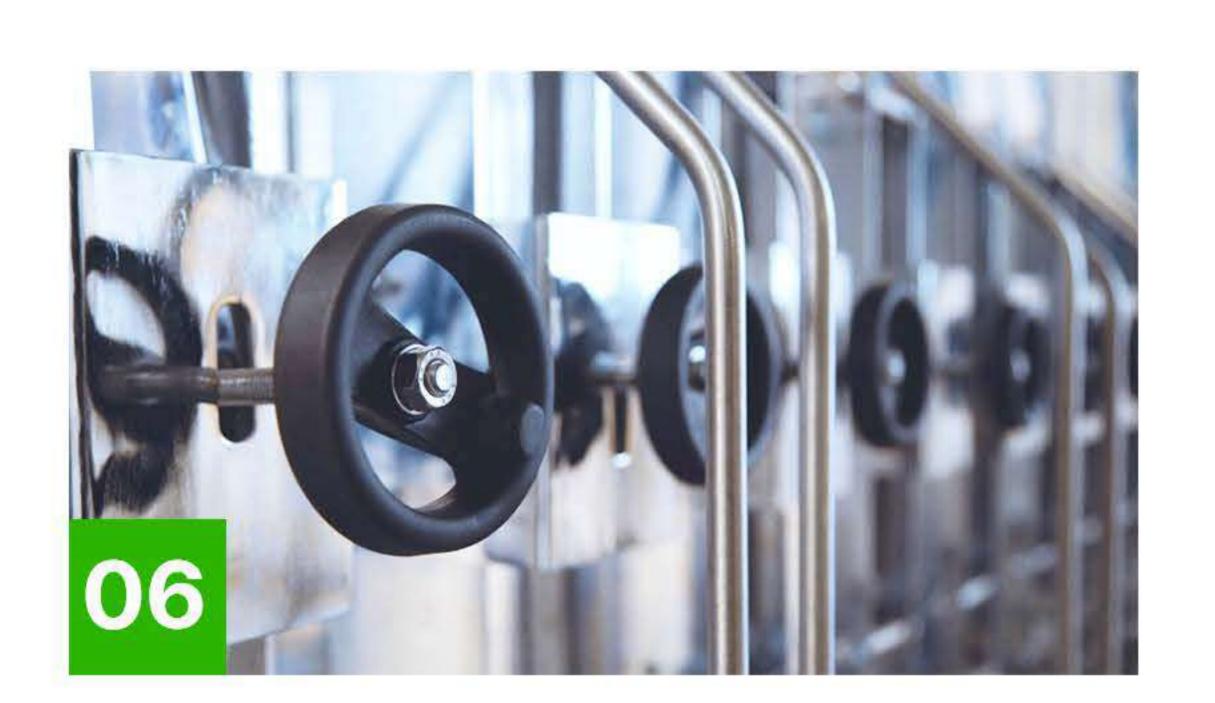
Max. Extraction Pressure

70°C (158°F)

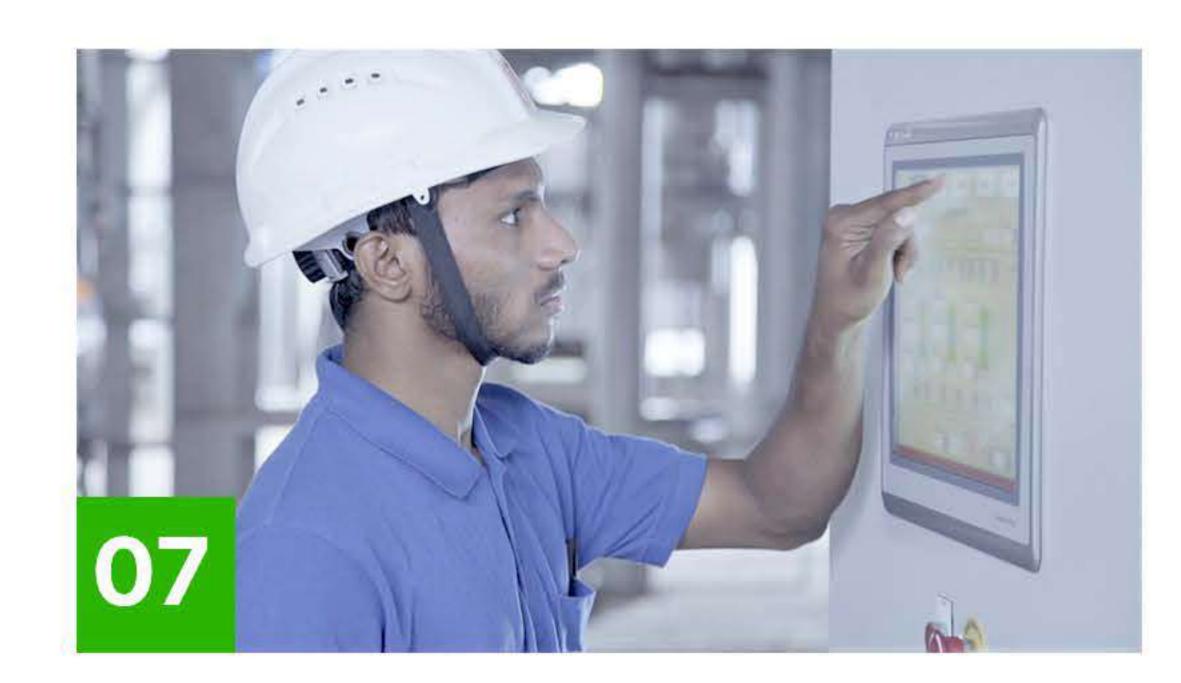
Max. Extraction Temperature



Special Separator Design for easy collection of highly resinous and low-viscosity products



Proprietary Changeover Valves for quick changeovers and isolations, even at high pressures



Intuitive Intelligence
with proprietary Tablet APP enabling
recipe-based control as well as remote
monitoring and maintenance



SUPERCRITICAL CO₂ EXTRACTION SYSTEMS LEVEL 3 (100L)

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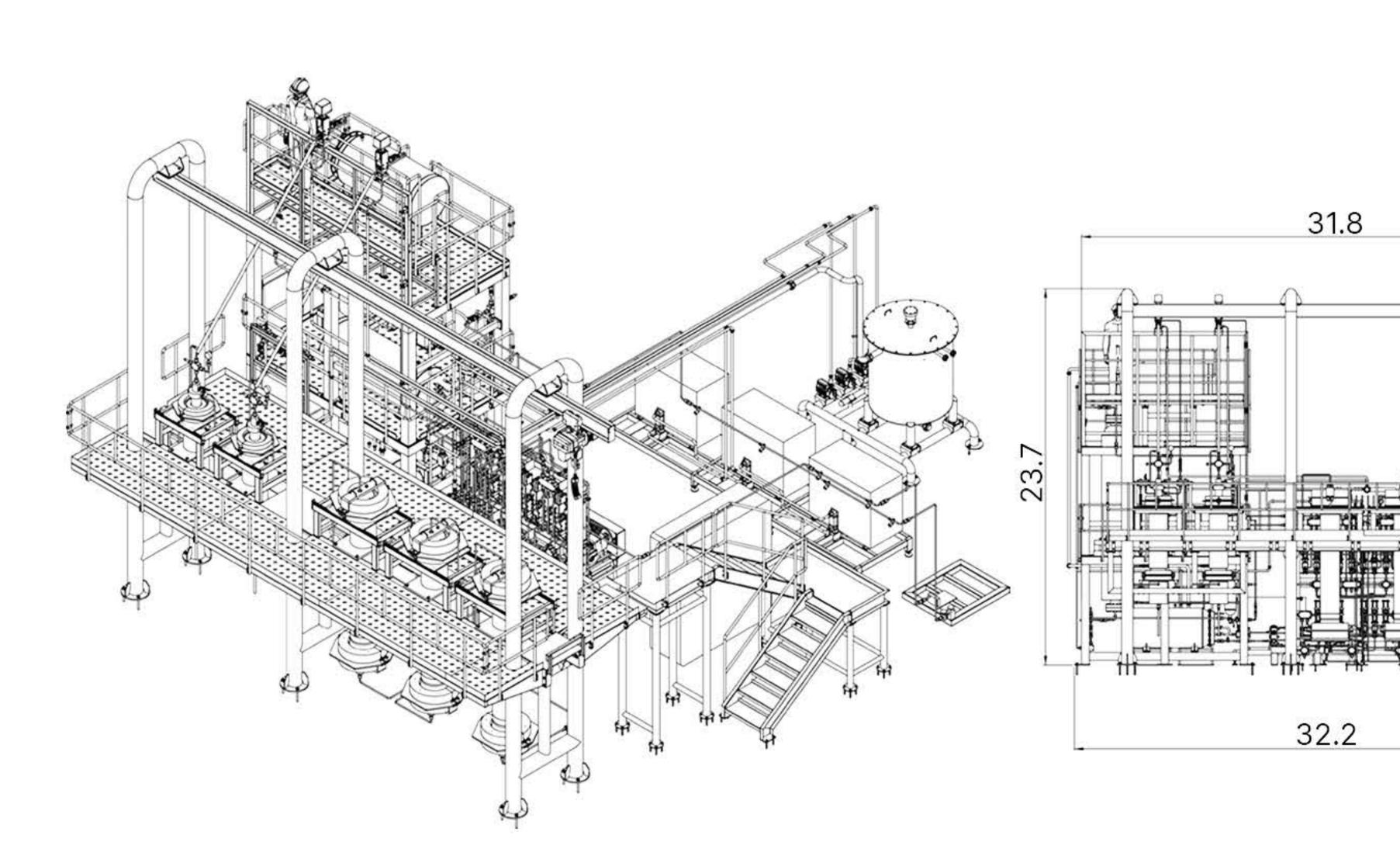


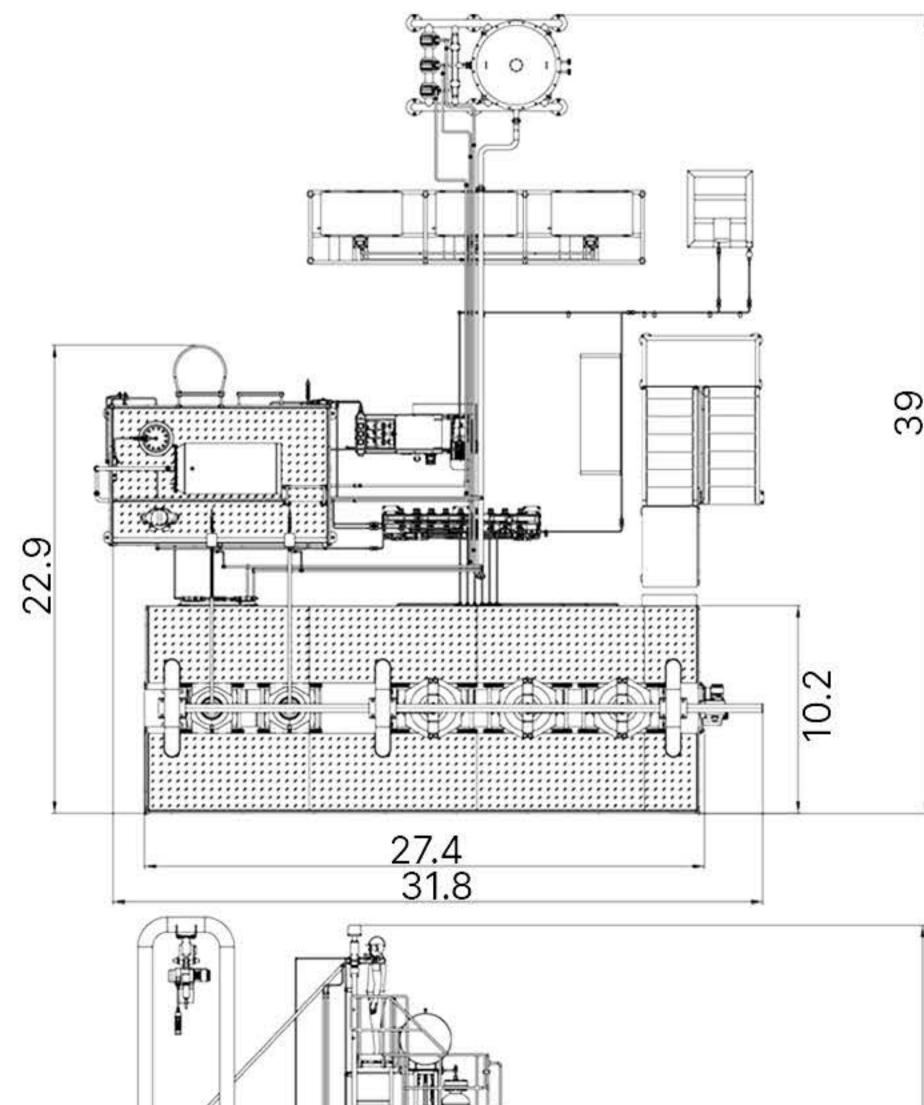


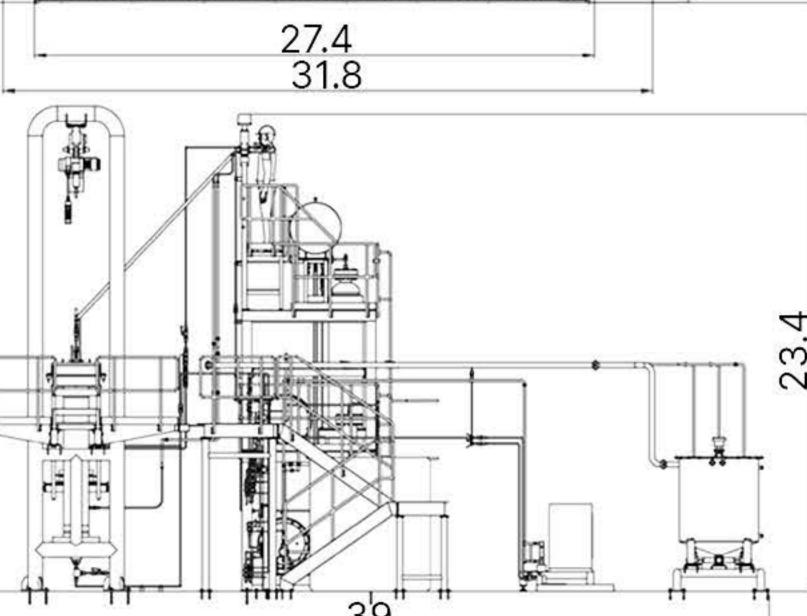


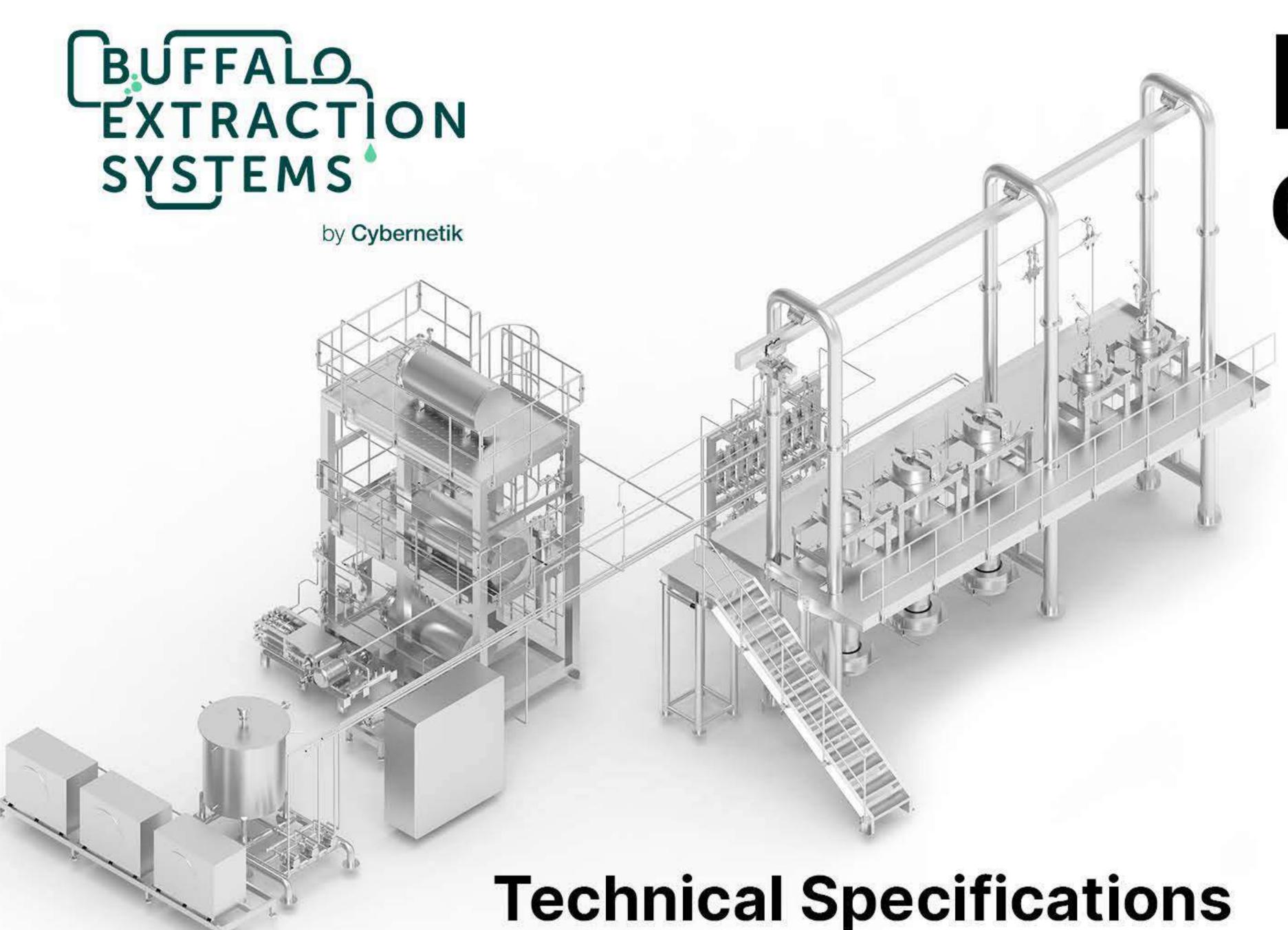


(all dimensions in feet)









Level 3 CO, SCFE Systems

Buffalo Extraction Systems' Level 3 Systems are ideal for THC and high valve CBD crude oil extraction with a capacity to process 400 kg/day with 100L x 2 Automatic and 800 kg/day with 100L x 3 Automatic systems at sub-critical and super-critical process parameters.

Parameter	100L x 2	100L x 3
Single Extractor Volume (Liter)	100	100
Total System Volume (Liter)	200	300
Biomass Processing Capacity (kg/day)	400	800
Flow Rate of CO ₂ Pump (LPH)	800	800
Maximum Extraction Pressure (Bar/PSI)	350/5000	350/5000
Maximum Extraction Temperature (°C/°F)	70/158	70/158
Separation Pressure Range (Bar/PSI)	70 - 200/ 900 - 2900	70 - 200/ 900 - 2900
Separation Temperature Range (°C/°F)	20 - 50/ 70 - 122	20 - 50/ 70 - 122
CO ₂ Recirculation	Yes	Yes
Extractor Changeover Valves	Automatic	Automatic
CO ₂ Loss Per Batch (kg)	3	3
Area Required (m/ft)	9.4 × 6.7 × 7/ 31 × 22 × 23	9.4 × 6.7 × 7/ 31 × 22 × 23
Power Consumption (kW)	54	54
Number Of Extractors	2	3
Extractor Usage	Single	Single Or Series
Co-Solvent Pump	Yes (Optional)	Yes (Optional)
CO ₂ Feeding And Recovery System (For CO ₂ Storage After Batches)	Included	Included
CIP System	Included	Included

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Certifications





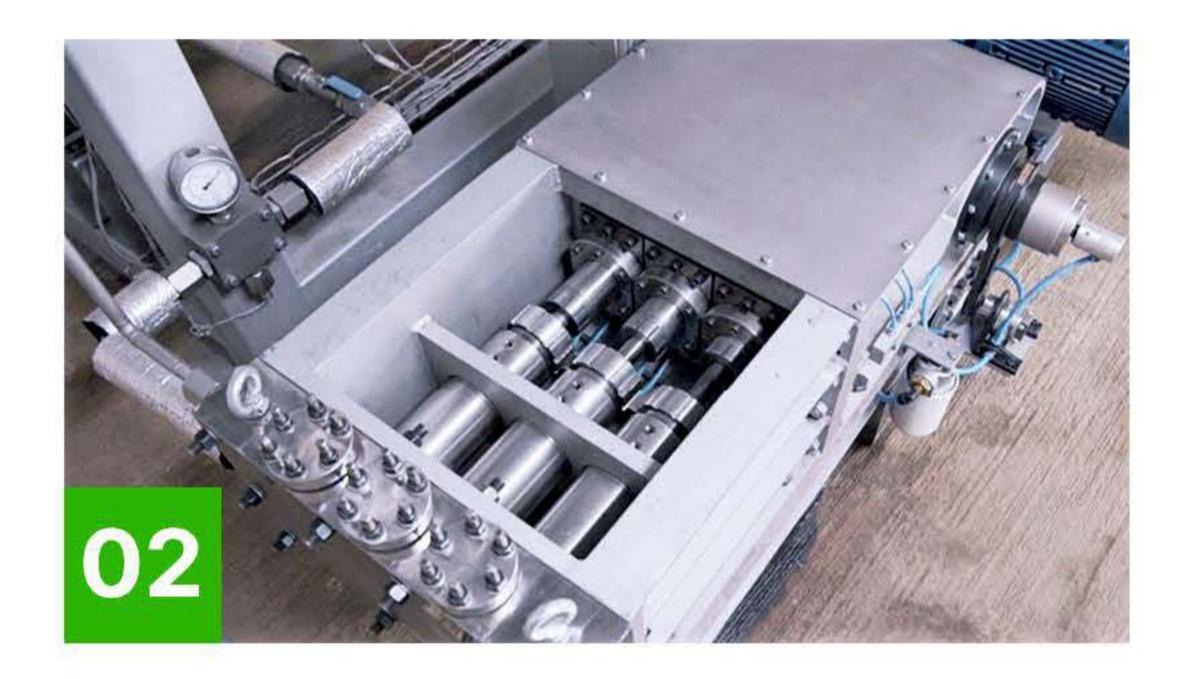




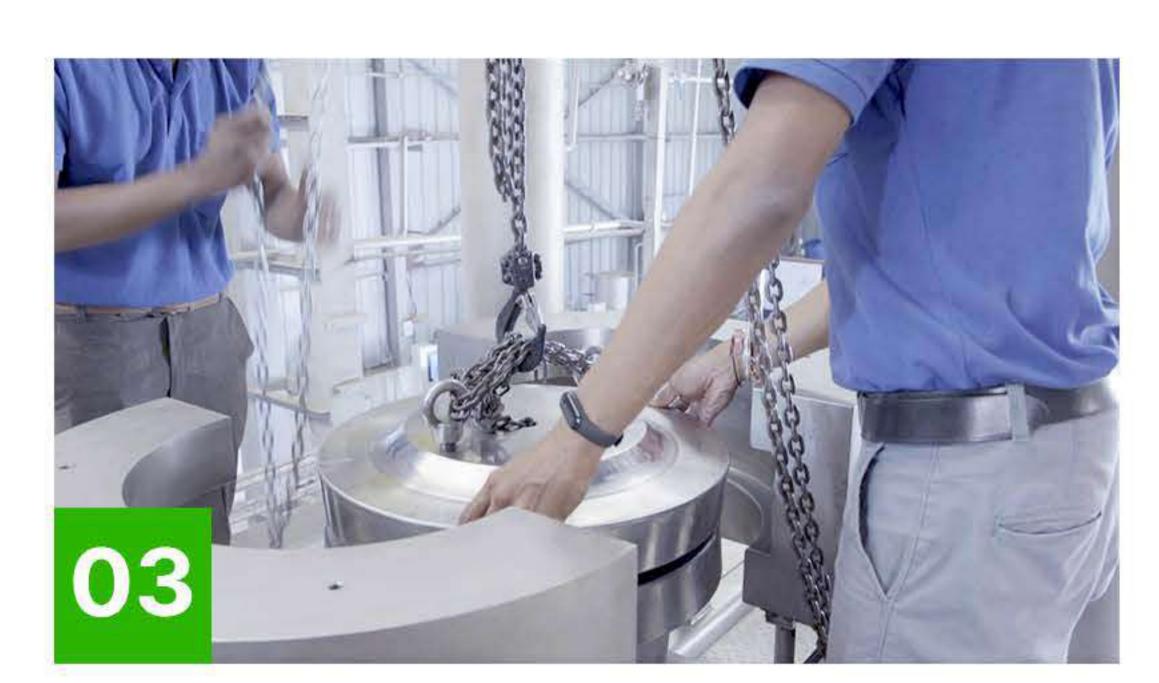
System Features



Precise Pressure Control that guarantees consistent solvent solubility for targeted extraction



Consistent Flow Control of the pump speed delivers highest levels of extraction efficiency



Superior Sealing Technology ensures minimum downtime and reduced maintenance



Unique Extractor Closure Design for rapid batch changeovers with minimal interruption

50 kg

Extractor Processing Capacity Per Batch

350 Bar (5000 PSI)

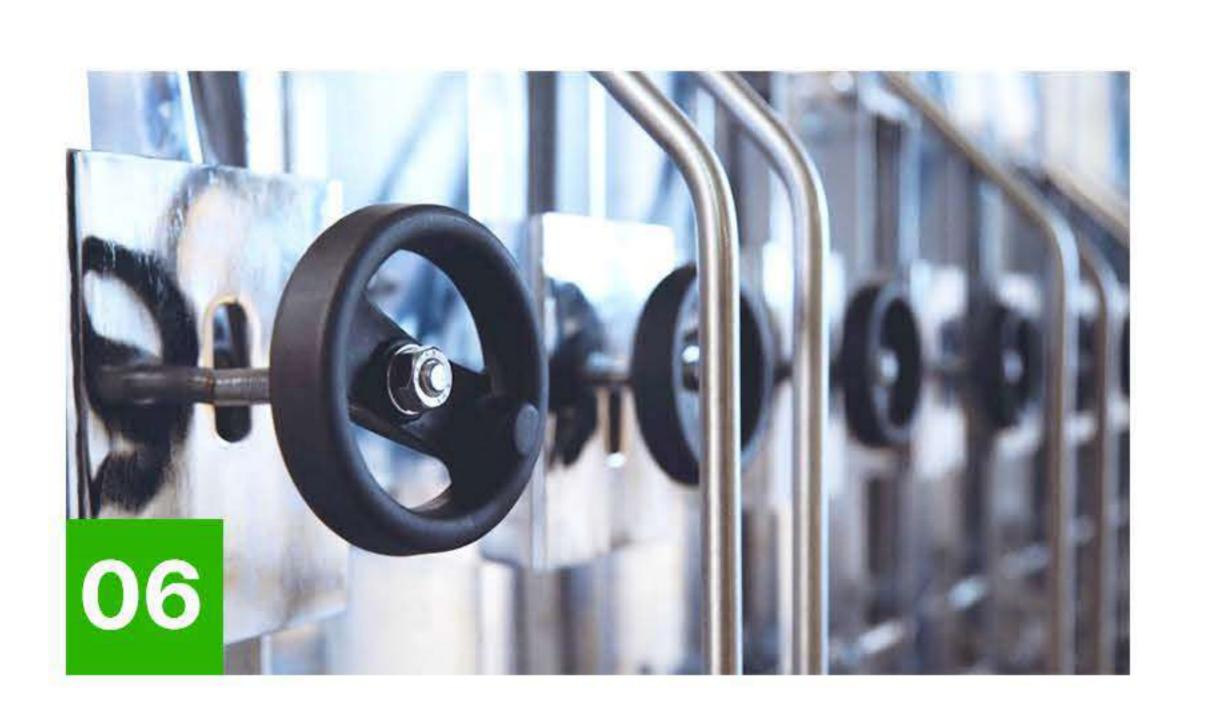
Max. Extraction Pressure

70°C (158°F)

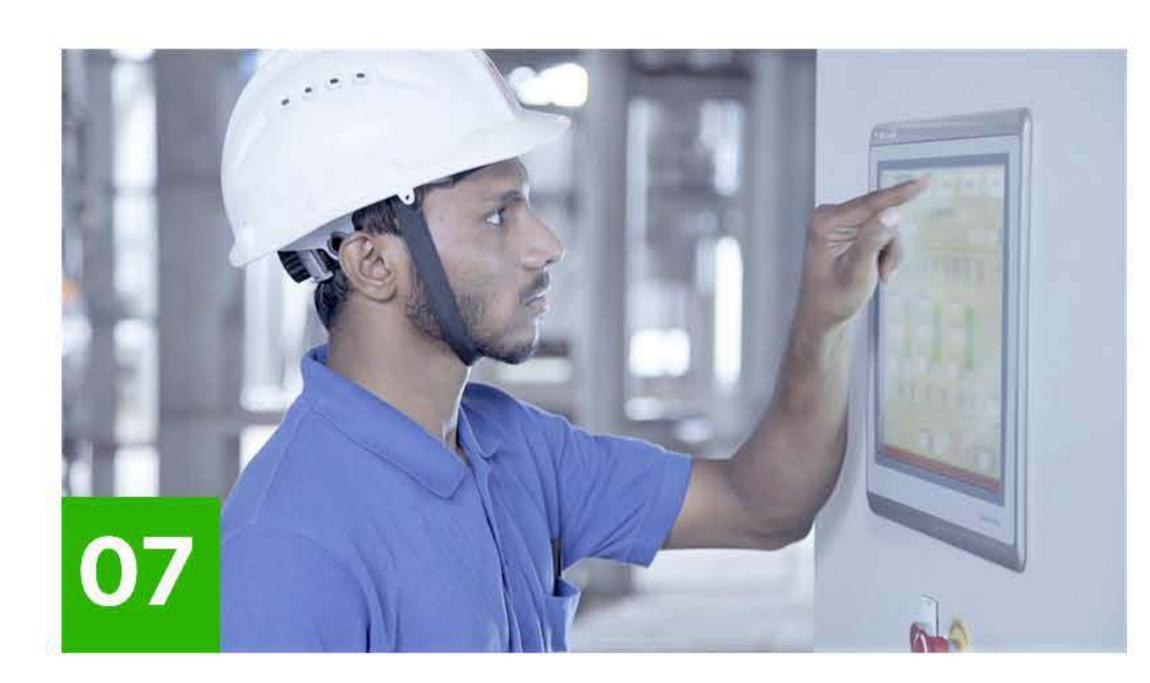
Max. Extraction Temperature



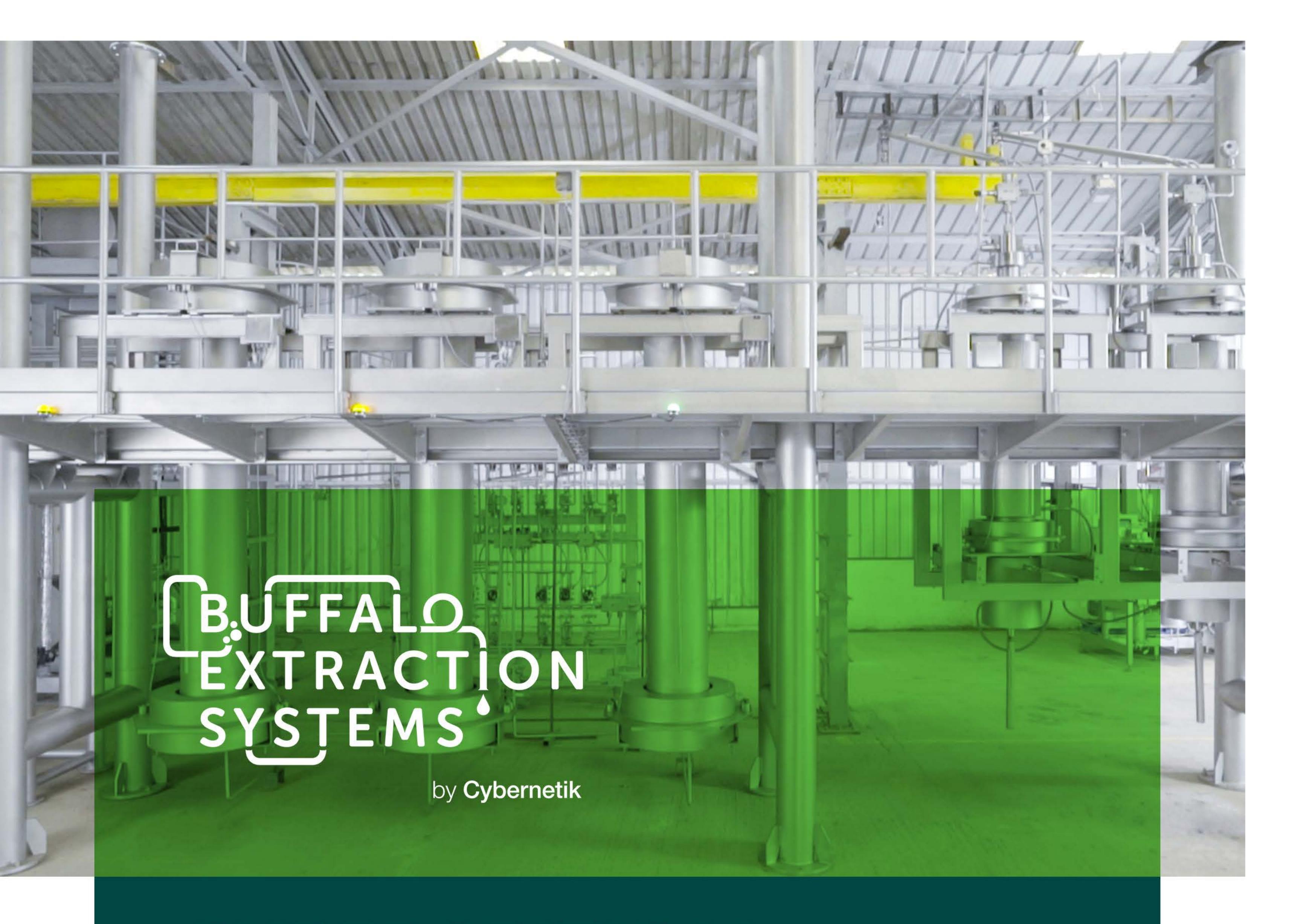
Special Separator Design for easy collection of highly resinous and low-viscosity products



Proprietary Changeover Valves for quick changeovers and isolations, even at high pressures



Intuitive Intelligence with proprietary Tablet APP enabling recipe-based control as well as remote monitoring and maintenance



SUPERCRITICAL CO₂ EXTRACTION SYSTEMS LEVEL 3 (200L)

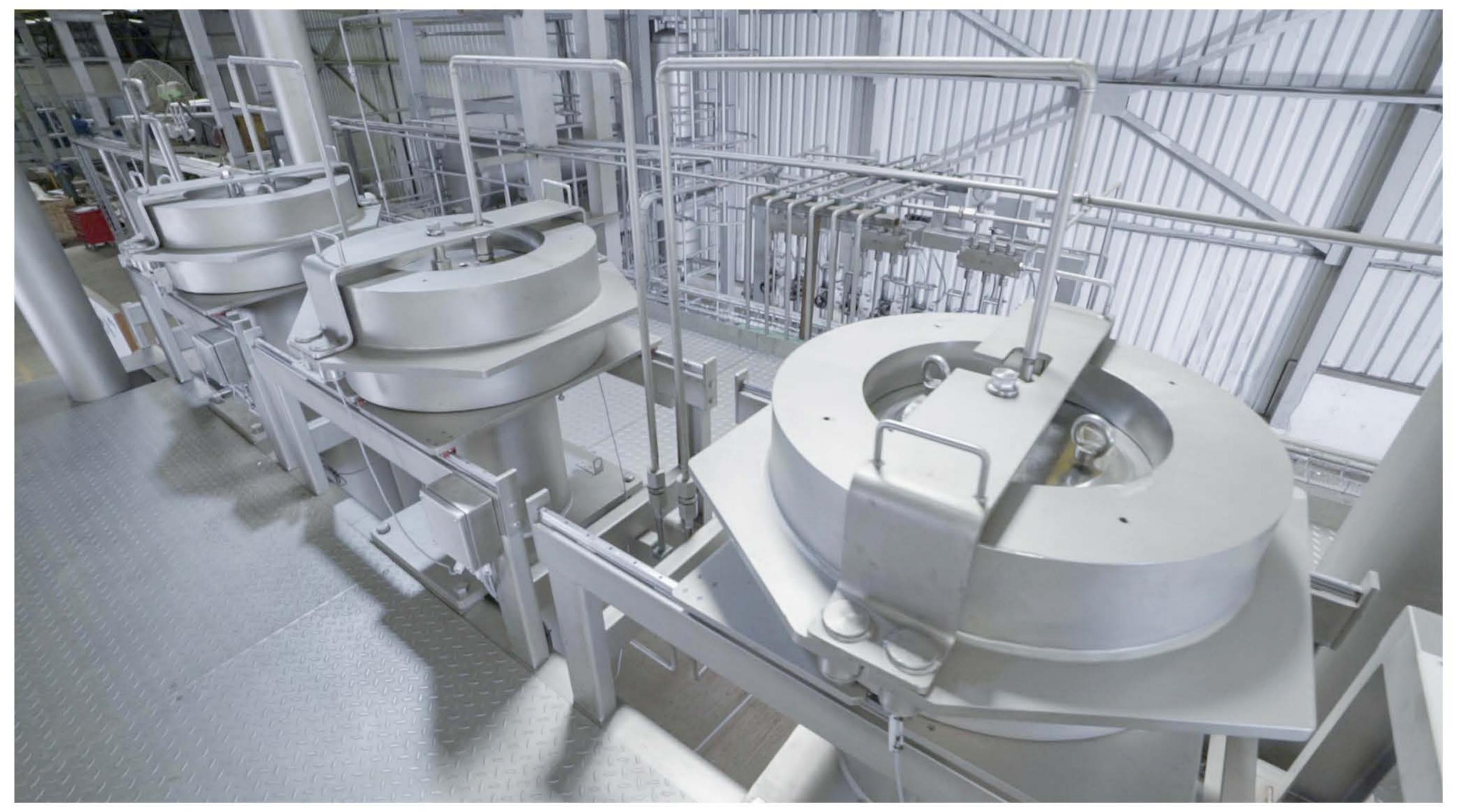
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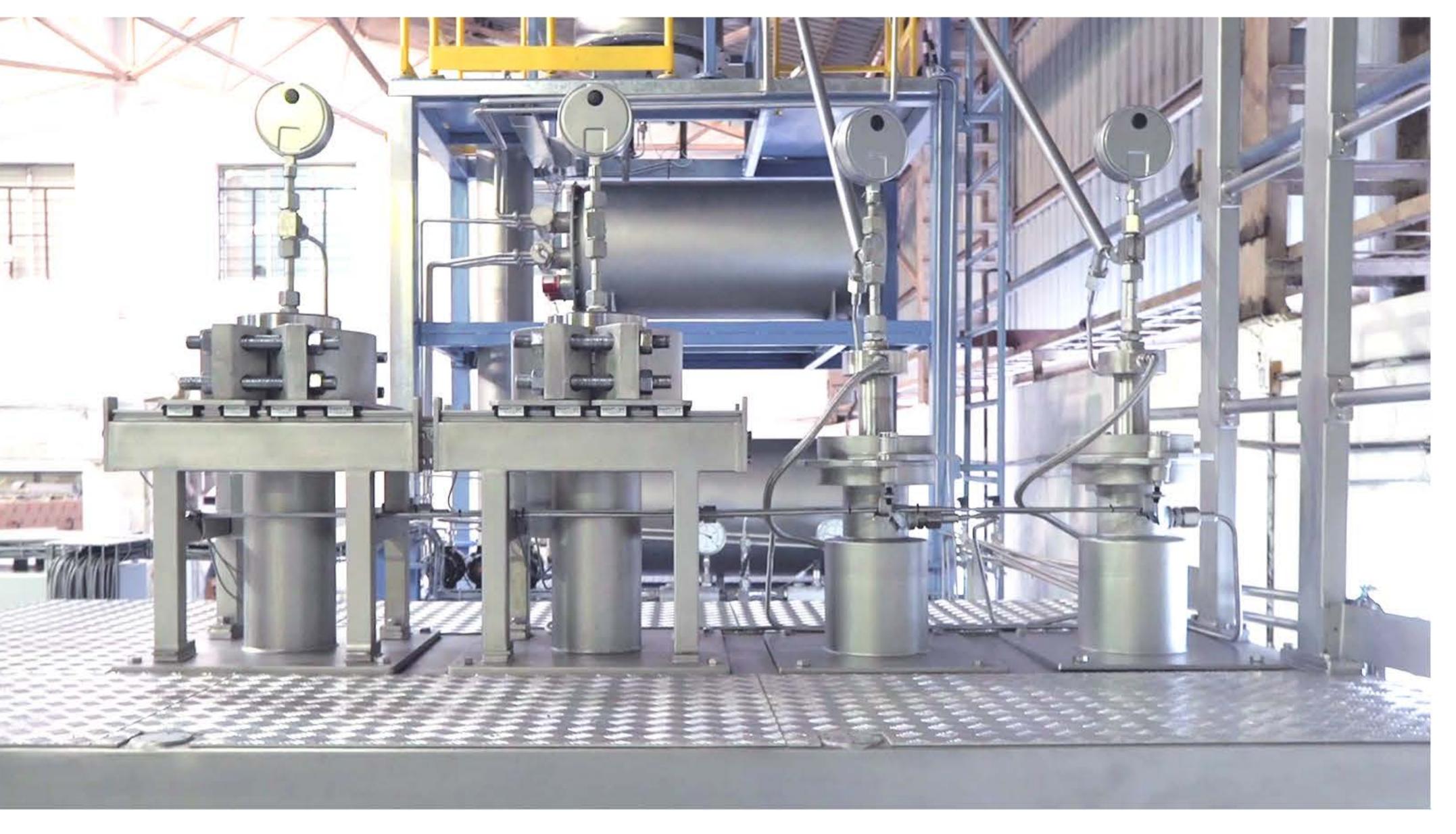
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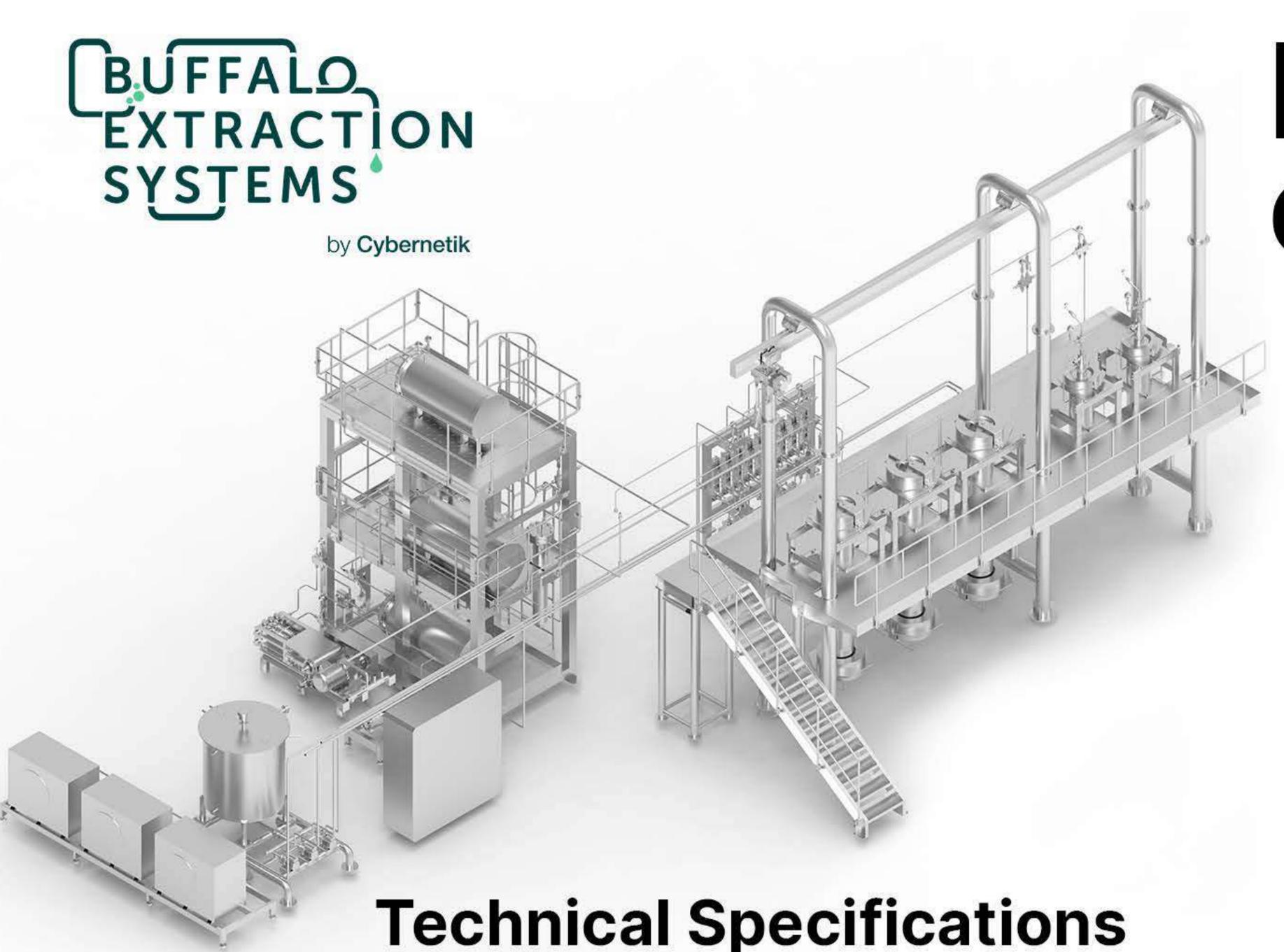






Engineering Layout

Layout will be customised based on client factory layout



Level 3 CO, SCFE Systems

Buffalo Extraction Systems' Level 3 Systems are ideal for THC and high valve CBD crude oil extraction with a capacity to process 800 kg/day with 200L x 2 Automatic and 1600 kg/day with 200L x 3 Automatic systems at sub-critical and super-critical process parameters.

Parameter	200L x 2	200L x 3
Single Extractor Volume (Liter)	200	200
Total System Volume (Liter)	400	600
Biomass Processing Capacity (kg/day)	800	1600
Flow Rate of CO ₂ Pump (LPH)	1600	1600
Maximum Extraction Pressure (Bar/PSI)	350/5000	350/5000
Maximum Extraction Temperature (°C/°F)	70/158	70/158
Separation Pressure Range (Bar/PSI)	70 - 200/ 900 - 2900	70 - 200/ 900 - 2900
Separation Temperature Range (°C/°F)	20 - 50/ 70 - 122	20 - 50/ 70 - 122
CO ₂ Recirculation	Yes	Yes
Extractor Changeover Valves	Automatic	Automatic
CO ₂ Loss Per Batch (kg)	6	6
Area Required (m/ft)	13.7 × 7.9 × 8/ 45 × 26 × 27	13.7 × 7.9 × 8/ 45 × 26 × 27
Power Consumption (kW)	81	81
Number Of Extractors	2	3
Extractor Usage	Single	Single Or Series
Co-Solvent Pump	Yes (Optional)	Yes (Optional)
CO ₂ Feeding And Recovery System (For CO ₂ Storage After Batches)	Included	Included
CIP System	Included	Included

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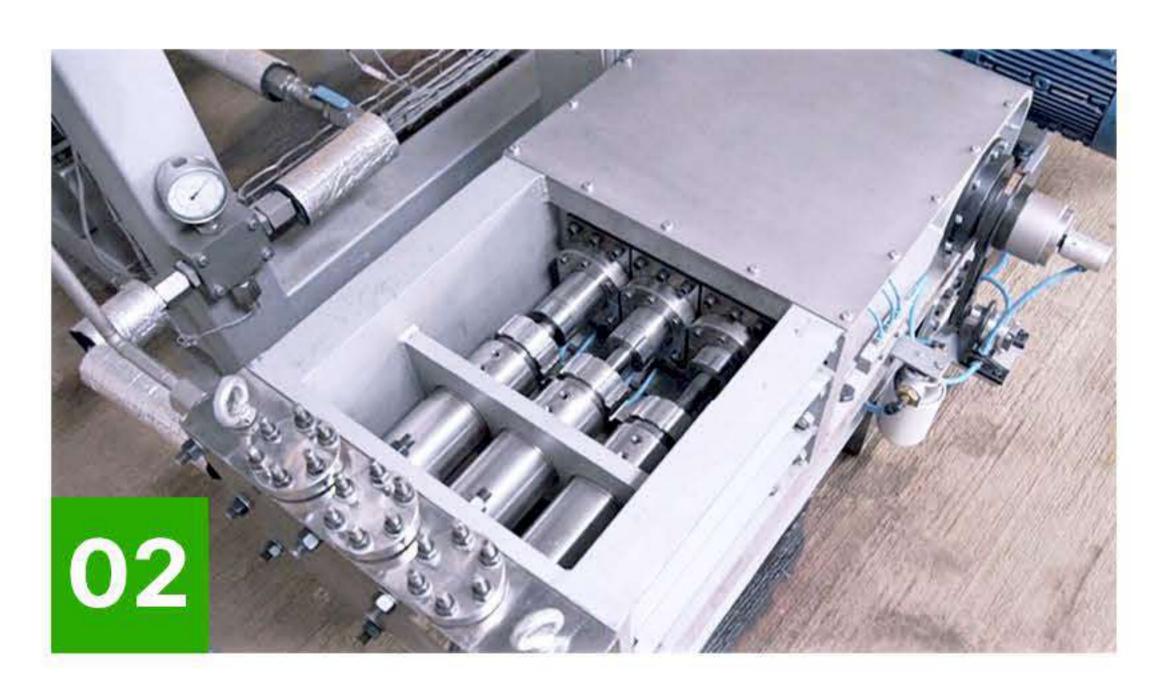


cGMP

System Features



Precise Pressure Control that guarantees consistent solvent solubility for targeted extraction



Consistent Flow Control of the pump speed delivers highest levels of extraction efficiency



Superior Sealing Technology ensures minimum downtime and reduced maintenance



Unique Extractor Closure Design for rapid batch changeovers with minimal interruption

100 kg

Extractor Processing Capacity Per Batch

350 Bar (5000 PSI)

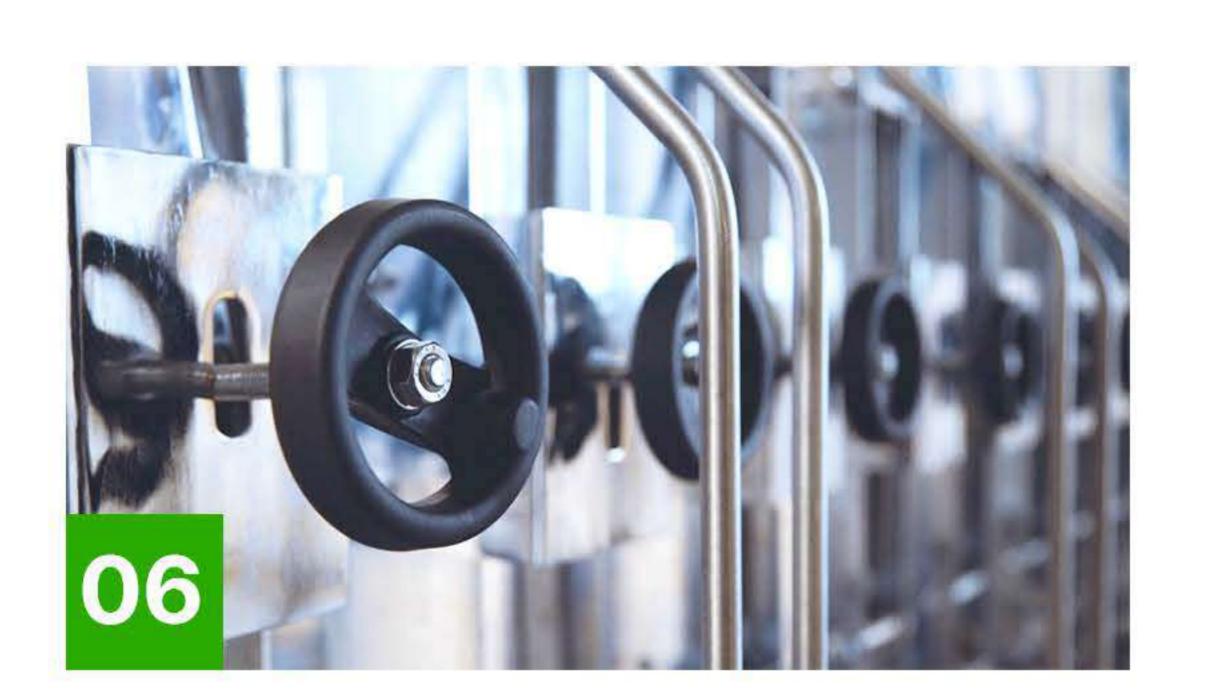
Max. Extraction Pressure

70° C (158° F)

Max. Extraction Temperature



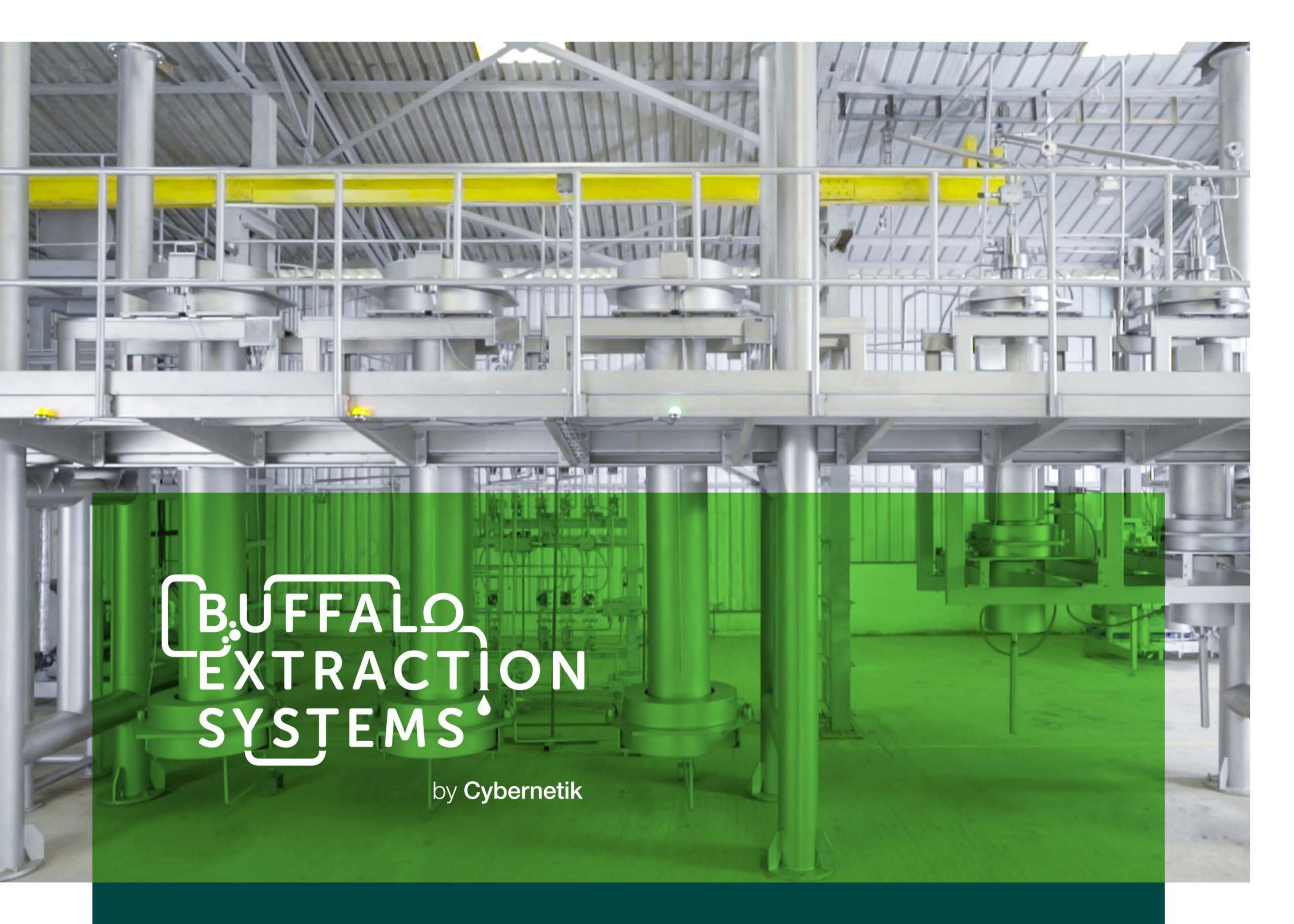
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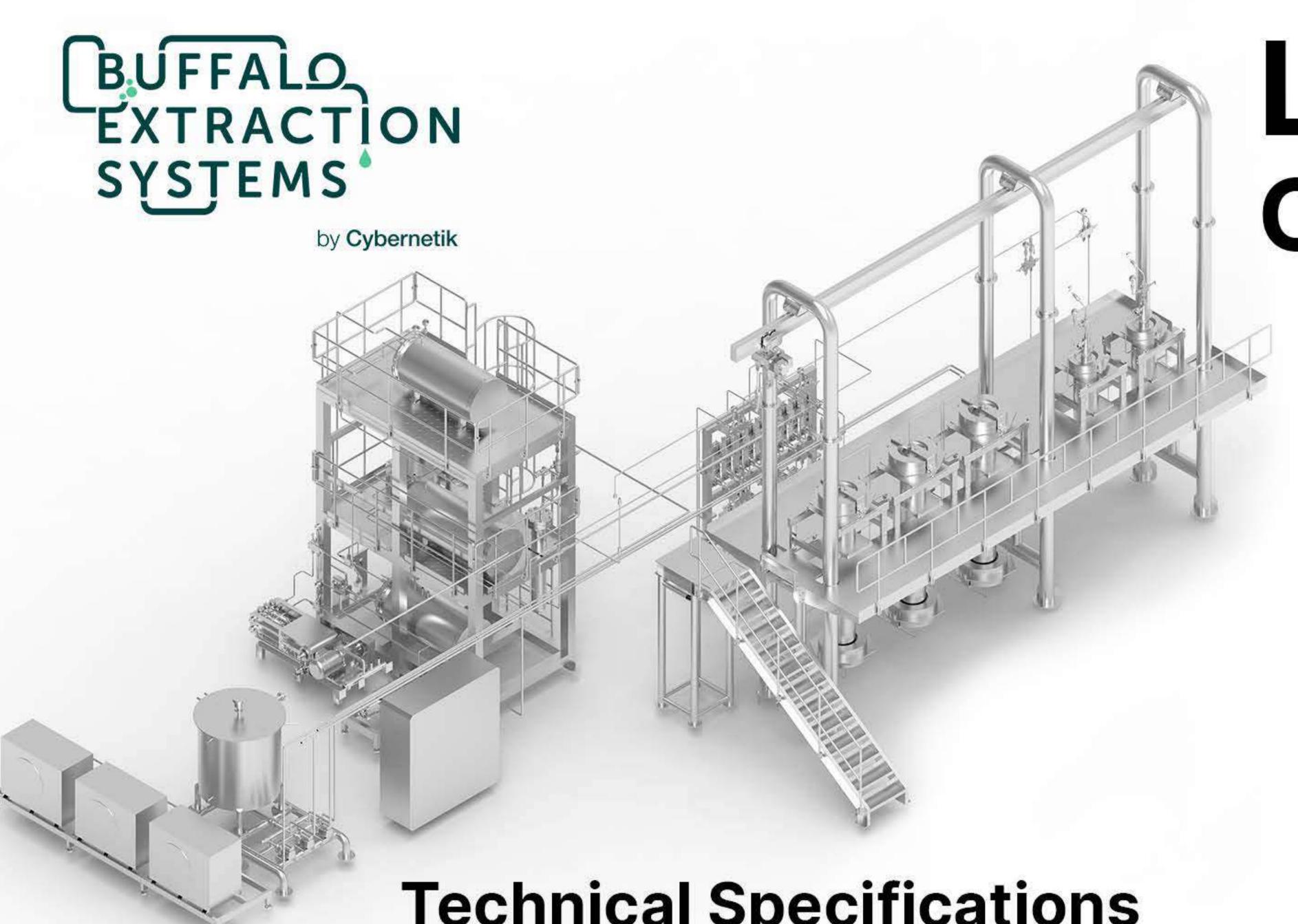






Engineering Layout

Layout will be customised based on client factory layout



Level 3 CO, SCFE Systems

Buffalo Extraction Systems' Level 3 Systems are ideal for THC and high valve CBD crude oil extraction with a capacity to process 2000 kg/day with 500L x 2 Automatic and 4000 kg/day with 500L x 3 Automatic systems at sub-critical and super-critical process parameters.

Technical Specifications

Parameter	500L x 2	500L x 3
Single Extractor Volume (Liter)	500	500
Total System Volume (Liter)	1000	1500
Biomass Processing Capacity (kg/day)	2000	4000
Flow Rate of CO ₂ Pump (LPH)	4000	4000
Maximum Extraction Pressure (Bar/PSI)	350/5000	350/5000
Maximum Extraction Temperature (°C/°F)	70/158	70/158
Separation Pressure Range (Bar/PSI)	70 - 200/ 900 - 2900	70 - 200/ 900 - 2900
Separation Temperature Range (°C/°F)	20 - 50/ 70 - 122	20 - 50/ 70 - 122
CO ₂ Recirculation	Yes	Yes
Extractor Changeover Valves	Automatic	Automatic
CO ₂ Loss Per Batch (kg)	15	15
Area Required (m/ft)	Customized based on client layout	Customized based on client layout
Power Consumption (kW)	320	320
Number Of Extractors	2	3
Extractor Usage	Single	Single Or Series
Co-Solvent Pump	Yes (Optional)	Yes (Optional)
CO ₂ Feeding And Recovery System (For CO ₂ Storage After Batches)	Included	Included
CIP System	Included	Included

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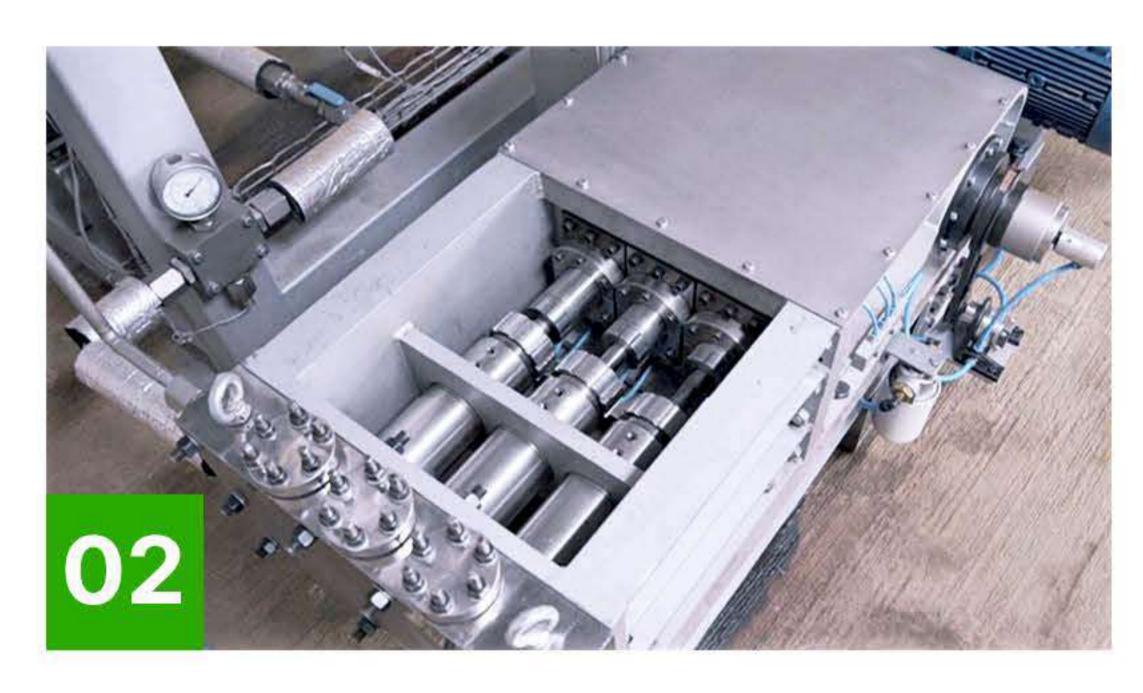




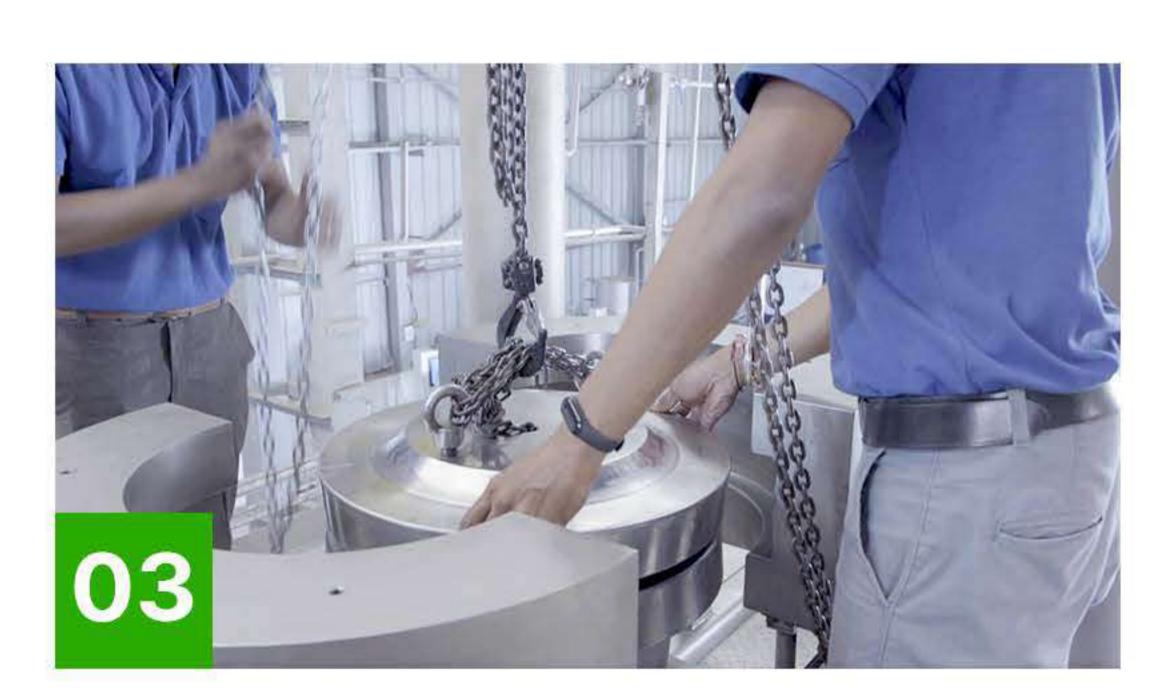
System Features



Precise Pressure Control that guarantees consistent solvent solubility for targeted extraction



Consistent Flow Control of the pump speed delivers highest levels of extraction efficiency



Superior Sealing Technology ensures minimum downtime and reduced maintenance



Unique Extractor Closure Design for rapid batch changeovers with minimal interruption

250 kg

Extractor Processing Capacity Per Batch

350 Bar (5000 PSI)

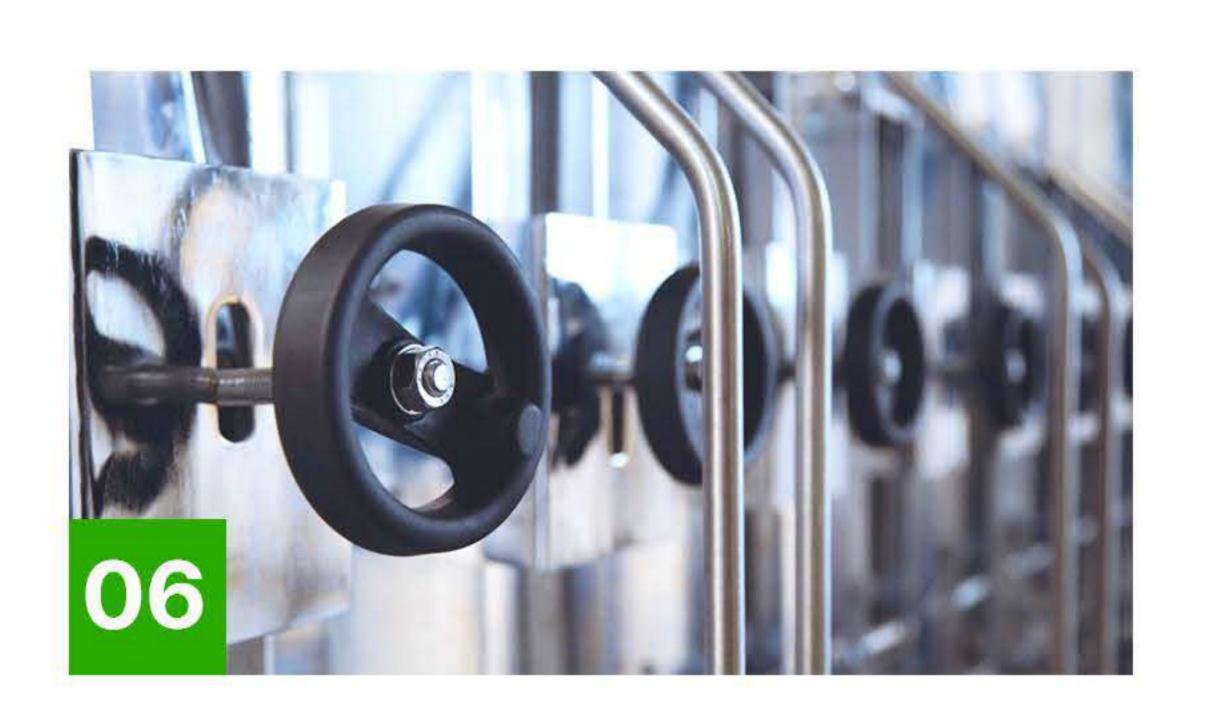
Max. Extraction Pressure

70° C (158° F)

Max. Extraction Temperature



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