

Tide Technocrats Private Limited

A Cleantech company
Solid waste, Wastewater & Energy



About Tide Technocrats Private Limited

Tide Technocrats Private Limited is a sustainability-focused organization committed to driving impactful solutions across core sectors of Waste Management, Sanitation, and Bio-Energy. With a mission to advance environmental stewardship, we specialize in advisory services, system integration, intellectual property (IP) development for technological innovation, and equipment/product solutions and sales. Our integrated approach combines expertise with innovation to create sustainable, scalable outcomes for communities, industries, and ecosystems.

ABOUT SHINCCI



- **Research Institutes**

The world's first low-temp evaporation research institute which is pushing research and development in multiple fields, creating more business opportunities for businesses.

- Heat Pump Drying Research Institute
- Waste Liquid and Garbage Disposal Institute
- Integrated Design Institute
- Institute of Mechanical and Electrical Engineering

- **A strong R&D team**

- **Exquisite Manufacturing**

- **International Quality**

- **More than 10 experimental areas in**

- **3 large R&D bases**

About SHINCCI



New production base
in JIUJIANG



Investment: 300 million yuan
Area: 130 acres
Production value: 3 billion yuan

TOP.1

Leader in low-temperature evaporation technology

20+

Established in 2003
Focusing on low-temperature evaporation for 20+ years

800+

More than 800 staff

1600+

More than 1000 municipal cases
More than 300 industrial cases

200+

More than 200 patents
Among them, there are 10 invention patents

3

3 production and R&D bases:
Guangzhou/Jiujiang/Duchang
More than 200 acres in total

Performance volume

16000T/D

Sludge treatment capacity



30+
Covered industries

300+
Global cooperative customers

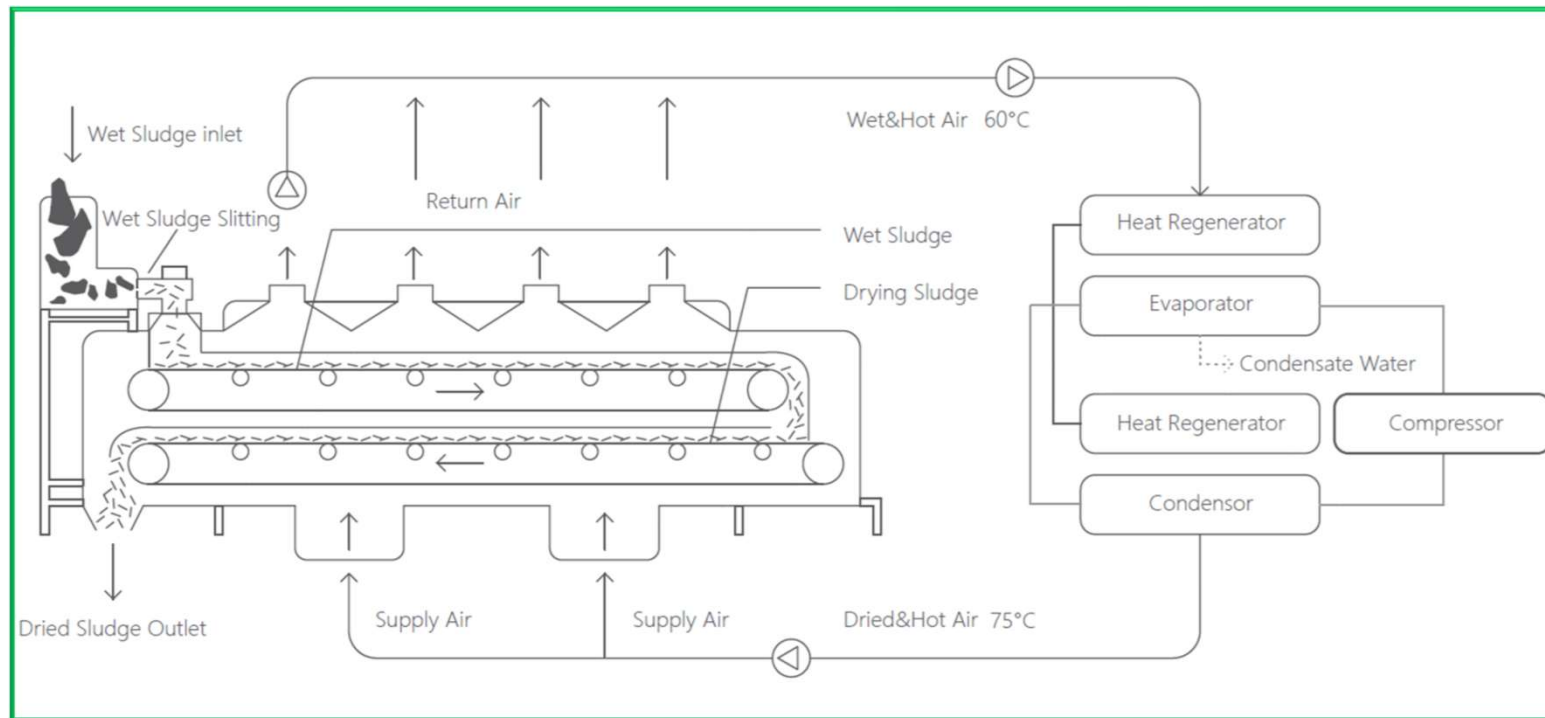
Customer trust Brilliant



Shincci's products are exported to the United States, Germany, Britain, Italy, Romania, Turkey, Iran, Indonesia, Japan, South Korea, Taiwan and all over the world



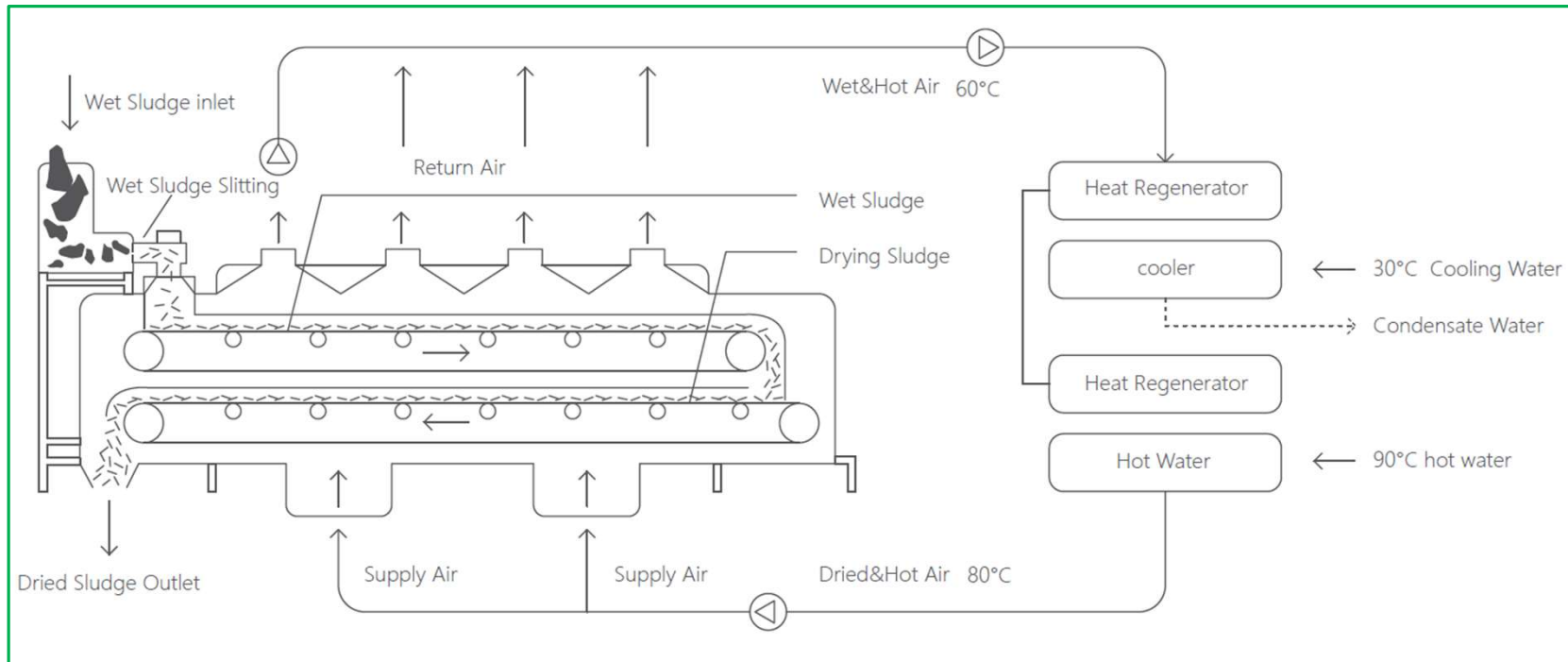
Low Temperature Drying –Dehumidification Heat Pump



The Low Temperature Sludge Dryer works by the principle of Dehumidification Heat Pump. This system makes the circulating hot air go through the wet sludge laid on the conveyor belt, which evaporates the moisture of the sludge. Since the whole system is proceeded in a closed loop, there is no waste of any heat during the process.

Low Temperature Waste Heat Dehumidification

- ◆ No compressor (refrigeration system), only components of electric motor and fan with power consumption, it is only 1/4 that of Dehumidification Heat Pump Module.



- ◆ Cold water system makes the wet & hot air dehumidification and condensation. Inlet water 33°C, outlet water 45°C. According to the drying capacity of different modules, certain volume of hot water is to be provided.
- ◆ Hot water system heats up the dry air. Inlet water 90°C, outlet water 70°C. According to the drying capacity of different modules, certain volume of hot water is to be provided.

Advantages of Low Temperature Drying Technology



- **10%-50% Output moisture content based on requirement**
- **Low temperature is safer for operation**
- **Environmentally friendly**
- **100% heat utilization**
- **Simple infrastructure**
- **Innovative**
- **Economical**
- **Fully automatic operation, one man on duty**
- **No mechanical wear, no conventional consumables**

OPERATIONAL REQUIREMENTS



SL No	Parameter	Unit	Quantity
	TYPICAL OPERATIONAL REQUIREMENT FOR A 20 TONS PER DAY DRYER		
1	Sludge Quantity	Kgs per day	20000
2	Moisture content of wet sludge	%	85
3	Moisture content of dried sludge	%	15
4	Quantity of dried sludge	Kgs per day	3530
5	Moisture removal per day	Kgs	16470
6	Moisture removal per hour	Kgs	690
7	Electricity consumption per day	Kwh	7490
8	Manpower required-Supervision	Nos	1
9	Manpower required - Labour	Nos	6

AVAILABLE MODELS

1. Heat Pump Dryer

Model	SHS750FL	SHS1350FL	SHS3000FL	SHS6000FL	SHS9000FL
Rated Standard Dehumidification Capacity (kg/24h)	750	1350	3000	6000	9000
Rated Standard Dehumidification Capacity (kg/h)	31.3	56.3	125	250	375
Rated Standard Operating Power (kW)	10	18	35	67	99
Refrigerating System (set)	1	1	4	8	12
Footprint dimension (mm)	2625×1277×1850	3470×1277×2320	4100*2140*2240	6800*2140*2240	9500*2140*2240
Structure	Whole Set	Whole Set	Whole Set	Assembled Set	Assembled Set
Weight (metric ton)	1.6	2.0	3.2	5.8	8.0

Model	SHS10800FL	SHS16200FL	SHS21600FL	SHS27000FL	SHS32400FL
Rated Standard Dehumidification Capacity (kg/24h)	10800	16200	21600	27000	32400
Rated Standard Dehumidification Capacity (kg/h)	450	675	900	1125	1350
Rated Standard Operating Power (kW)	118	174	230	286	343
Refrigerating System (set)	8	12	16	20	24
Footprint dimension (mm)	8050*3060*2750	11300*3060*2750	14550*3060*2750	17800*3060*2750	21050*3060*2750
Structure	Assembled Set	Assembled Set	Assembled Set	Assembled Set	Assembled Set
Weight (metric ton)	9.1	12.3	15.5	17.7	21.9

AVAILABLE MODELS

2. Multi Heat Recovery Sludge Dryer (MHR)

Model	MHR13500SL	MHR20000SL	MHR27000SL	MHR33700SL	MHR40500SL	MHR47000SL
Rated Standard Dehumidification Capacity (kg/24h)	13500	20000	27000	33700	40500	47000
Rated Standard Dehumidification Capacity (kg/h)	563	833	1125	1404	1688	1958
Rated Standard Operating Power (kW)	125	185	240	305	360	420
Cooling water flow rate (m ³ /h)	7	10	13	17	20	23
Module Quantity (set)	6	8	11	13	16	18
Refrigerating System (set)	8	12	16	20	24	28
Footprint dimension (mm)	10250×3060×2750	14550×3060×2750	18880×3060×2750	23000×3060×2750	26320×3060×2750	31880×3060×2750
Structure	Assembled Set	Assembled Set	Assembled Set	Assembled Set	Assembled Set	Assembled Set
Weight (metric ton)	10.9	15.2	18.5	22.2	26.4	27.9

Model	MHR25000SLD	MHR37500SLD	MHR50000SLD	MHR62500SLD	MHR75000SLD
Rated Standard Dehumidification Capacity (kg/24h)	25000	37500	50000	62500	75000
Rated Standard Dehumidification Capacity (kg/h)	1042	1563	2083	2500	3125
Rated Standard Operating Power (kW)	228	337	442	560	670
Cooling water flow rate (m ³ /h)	14	20	26	34	40
Module Quantity (set)	7	10	12	15	17
Refrigerating System (set)	8	12	16	20	24
Footprint dimension (mm)	12410×4100×3300	17900×4100×3300	21750×4100×3300	27800×4100×3300	31425×4100×3300
Structure	Assembled Set	Assembled Set	Assembled Set	Assembled Set	Assembled Set
Weight (metric ton)	17.5	24.3	29.6	35.5	42.3

AVAILABLE MODELS

3. Waste – Heat Sludge Dryer

Model	SHS10000WH	SHS15000WH	SHS20000WH	SHS25000WH	SHS30000WH
Rated Standard Dehumidification Capacity (kg/24h)	10000	15000	20000	25000	30000
Rated Standard Dehumidification Capacity (kg/h)	416	624	832	1040	1248
Rated Standard Operating Power (kW)	34	48	62	76	90
Standard Heat-supplied Power (kW)	360	540	720	900	1080
Hot Water Flow Rate (m ³ /h)	15.6	23.4	31.2	39	46.8
Standard Cooling Power (kW)	320	480	640	800	960
Cooling water flow rate (m ³ /h)	23	34.5	46	57.5	69
Module Quantity (set)	6	8	10	12	14
Footprint dimension (mm)	8050×3060×2750	11300×3060×2750	14550×3060×2750	17800×3060×2750	21050×3060×2750
Structure	Assembled Set	Assembled Set	Assembled Set	Assembled Set	Assembled Set
Weight (metric ton)	8.6	12.3	14.8	16.5	20.4

Model	SHS35000WH	SHS40000WH	SHS45000WH	SHS50000WH
Rated Standard Dehumidification Capacity (kg/24h)	35000	40000	45000	50000
Rated Standard Dehumidification Capacity (kg/h)	1458	1667	1875	2083
Rated Standard Operating Power (kW)	104	118	132	146
Standard Heat-supplied Power (kW)	1260	1440	1620	1800
Hot Water Flow Rate (m ³ /h)	54.6	62.4	70.2	78
Standard Cooling Power (kW)	1120	1280	1440	1600
Cooling water flow rate (m ³ /h)	80.5	92	103.5	115
Module Quantity (set)	16	18	20	22
Footprint dimension (mm)	24300×3060×2750	27550×3060×2750	30800×3060×2750	34050×3060×2750
Structure	Assembled Set	Assembled Set	Assembled Set	Assembled Set
Weight (metric ton)	23.4	26.3	29.3	32.2



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