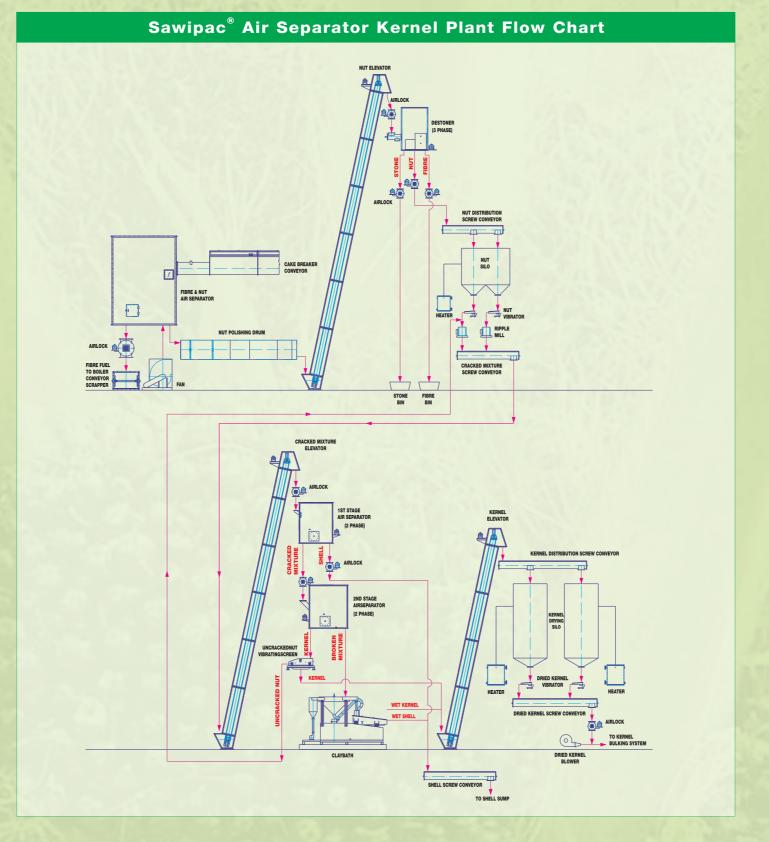
Advantages & Benefits

- ✓ Compact Design & Simpler Construction
- A totally enclosed re-circulating air system.
- ✓ Easy Installation
- Installation is simple and can be easily installed with the existing system.
- ✓ Improved Separation
- Air terminal velocity has been utilized to its highest efficiency. This results in good separation with precision control.
- ✓ Saving of Building Space
- Compact systems give substantial savingin area required.
- ✓ Lower Capital Cost
- Eliminates winnowing column, air ducting, external fan, air cyclone and big supporting steel structure. Less building area and less power required.
- √ 30% Power Saving
- ✓ Low Maintenance Cost
- Maintenance is minimum and only occasional cleaning is required.
- ✓ Automation

- System can be upgraded to automated process with IT technology.



Air Separator



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Air Separator

Sawipac[®] Air Separator is an innovative compact pneumatic separation system for palm oil milling industry. The uniqueness of the two-phase separation system eliminates shell cyclone and kernel loss. The stability of the terminal air velocity of air separator gives precision control where desired result can be achieved easily.

The operating principle of air separator is based on pneumatic air separation. Materials with different bulk density are fed into air separator where heavier and lighter materials are separated. There is no venting of air to the atmosphere for this enclosed re-circulating air system.



Air Separator

Fibre / Nut Separation

In the conventional system, the compacted pressed cake discharged from the screw press is conveyed by a cake breaker conveyor to the depericarper column. The cake breaker conveyor will loosen the compacted pressed cake, and nuts and fibre are separated in the depericarper column by induced air current from a depericarper fan. The separated nuts and fibre are discharged to nut polishing drum and fibre cyclone respectively.



Technical Specifications & Details

Nut to Polishing Drum

No	Model	Capacity FFB (Ton/hr)	Motor (kW)	Overall Dimension $(H \times L \times W)$	Application	Separation						
						Nut	Fibre					
1	SAS-F7-75	60	55	14 ft × 10 ft × 8 ft	Fibre/Nut Separation	V	/					
2	SAS-F7-60	45	45	14 ft \times 10 ft \times 8 ft	Fibre/Nut Separation	/	/					

Fibre after Cyclone

Nut / Stone Separation

In the conventional system, mixture of nuts and stones are conveyed by the nut elevator and fed into the destoner column where an upward flow of air current induced by destoner fan separates the nuts and stones. Nuts are lifted to the nut cyclone and discharged into the nut silo while stones and other heavier materials are discharged through the bottom of the destoner column into a stone bin.

With Sawipac® Air Separator, the destoner separating column, fan and air ducting are eliminated. Mixture of nuts and stones are fed to the air separator to be separated within the separator box.



Cracked Mixture Separation

Sawipac® Air Separator System for cracked mixture separation involves two or three stages of separation. At the first air separator, light shells are separated and conveyed to boiler. At the second air separator, whole kernels are conveyed to kernel silo while small & broken kernels and shells are conveyed to hydro cyclone / claybath for wet separation.



Technical Specifications & Details

·											
	Model	Capacity FFB (Ton/hr)	Motor (kW)	Overall Dimension (H×L×W)	Application	Separation					
No						Cracked Mixture	Kernel	Shell / Dust			
1	SAS-CM7-25	60	18.5	$8 \text{ ft} \times 9 \text{ ft} \times 6 \text{ ft}$	3 phase, Cracked Mixture Separation	/	/	/			
2	SAS-CM5-20	60	15	$8 \text{ ft} \times 9 \text{ ft} \times 6 \text{ ft}$	2 phase, 1st stage Cracked Mixture Separation	V		V			
3	SAS-CM5-15	60	11	$8 \text{ ft} \times 8 \text{ ft} \times 4 \text{ ft}$	2 phase, 2nd stage Cracked Mixture Separation	/	/				
4	SAS-CM5-10	45	7.5	$8 \text{ ft} \times 8 \text{ ft} \times 4 \text{ ft}$	2 phase, 2nd stage Cracked Mixture Separation	/	V				