

Department of Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

This section of the Application for Air Permit form provides general information on the scope of this application, the purpose for which this application is being submitted, and the nature of any construction or modification activities proposed as a part of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department on diskette, this section of the Application for Air Permit must also be submitted in hard-copy.

Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility name, if any; and a brief reference to the facility's physical location. If known, also enter the ARMS or AIRS facility identification number. This information is intended to give a quick reference, on the first page of the application form, to the facility addressed in this application. Elsewhere in the form, numbered data fields are provided for entry of the facility data in computer-input format.

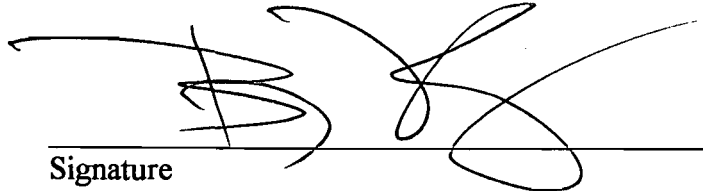
<u>OWNER:</u>	KEARNEY Development Company, Inc.
<u>FACILITY NAME:</u>	ARAN Portable Soil Cement Plant
<u>LOCATION:</u>	Various - State Wide

Application Processing Information (DEP Use)

7774801-002

1. Date of Receipt of Application:	9-6-95
2. Permit Number:	0950255-002-AC
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Mr. Charles.W. (Bing) Kearney, Jr., Vice President	
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: KEARNEY Development Company, Inc. Street Address: 8621 M.L. King Blvd. East City: Tampa State: FLORIDA Zip Code: 33618-0000	
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (813) 621-0855 Fax: (813) 620-0001	
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility (non-Title V source) addressed in this Application for Air Permit or the responsible official, as defined in Chapter 62-213, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>	
 Signature	9/5/95 Date

* Attach letter of authorization if not currently on file. (Appendix A.)

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility (or Title V source). An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emissions Unit ID	Description of Emissions Unit
Unknown	DCE Volkes Dalamatic Dust Collector - Series DLMV 10/10

Purpose of Application and Category

Check one (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain:

- Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.
- Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

- Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed: _____

- Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit to be revised: _____

- Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.

Operation permit to be revised/corrected: _____

- Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised: _____

Reason for revision: _____

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain:

- Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s): _____

- Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed: _____

- Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit to be revised: _____

Reason for revision: _____

Category III: All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain:

- Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any: AC48-273206

- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s): _____

- Air construction permit for one or more existing, but unpermitted, emissions units.

Application Processing Fee

Check one:

Attached - Amount: \$250.00

Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The purpose of this application is to apply for a construction permit for a portable ARAN soil-cement plant which we have purchased from an out of state owner.

The ARAN Pugmill was manufactured in Australia in 1987 and has a DCE Volkes Dalamatic Dust Collector, Model Number DLMV 10/10.

As noted above, Construction Permit No.: AC48-273206 was issued by the Central District on 07/28/95.

2. Projected or Actual Date of Commencement of Construction (DD-MON-YYYY):

Initially constructed in October, 1987.

3. Projected Date of Completion of Construction (DD-MON-YYYY):

See 2. above.

Professional Engineer Certification

1. Professional Engineer Name: Joseph A. Kowalski

Registration Number: 34287

2. Professional Engineer Mailing Address:

Organization/Firm: K2 Engineering, Inc.

Street Address: 7407 U.S. Hwy. 301 South

City: Riverview State: FLORIDA Zip Code: 33569-0000

3. Professional Engineer Telephone Numbers:

Telephone: (813) 677-0706

Fax: (813) 677-9340

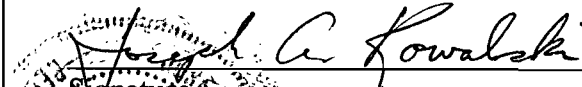
4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance (a) that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; or (b) for any application for a Title V source air operation permit, that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application;

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application; and

(3) For any application for an air construction permit for one or more proposed new or modified emissions units, the engineering features of each such emissions unit described in this application have been examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.


Signature

9/1/95
Date

Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact: Alan G. Payne - Manager, Pugmill Operations
2. Application Contact Mailing Address: Organization/Firm: KEARNEY Development Company, Inc. Street Address: 8621 M.L. King Blvd. East City: Tampa State: FLORIDA Zip Code: 33618-0000
3. Application Contact Telephone Numbers: Telephone: (813) 623-1994 Fax: (813) 628-4529

Application Comment

As stated previously, the purpose of this application is to apply for a construction permit for a portable ARAN soil-cement plant which we have purchased from an out of state owner.

Since the ARAN Soil-Cement Plant is a completely portable unit, (it can be relocated in 4 hours), we are applying for a FDEP statewide permit.

This unit is identical to the one previously permitted under Permit No: AO29-272066 issued on 07/12/95.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

1. Facility Owner or Operator: KEARNEY Development Company, Inc.			
2. Facility Name: ARAN Portable Soil Cement Plant			
3. Facility Identification Number:		[X] Unknown	
4. Facility Location Information: Facility Street Address: Various - Statewide City: _____ County: _____ Zip Code: _____			
5. Facility UTM Coordinates: N/A Zone: _____ East (km): _____ North (km): _____			
6. Facility Latitude/Longitude: N/A Latitude (DD/MM/SS): _____ Longitude (DD/MM/SS): _____			
7. Governmental Facility Code: 0	8. Facility Status Code: C	9. Relocatable Facility? [X] Yes [] No	10. Facility Major Group SIC Code: 16
11. Facility Comment: The address listed above is for the initial location only as this plant will be relocated on a regular basis.			

Facility Contact

1. Name and Title of Facility Contact: <p style="text-align: center;">Alan G. Payne - Manager, Pugmill Operations</p>			
2. Facility Contact Mailing Address: Organization/Firm: KEARNEY Development Company, Inc. Street Address: 8621 M.L. King Blvd. East City: Tampa State: FLORIDA Zip Code: 33618-0000			
3. Facility Contact Telephone Numbers: Telephone: (813) 623-1994 Fax: (813) 628-4529			

Facility Regulatory Classifications

1. Small Business Stationary Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
2. Title V Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Synthetic Non-Title V Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Synthetic Minor Source of Pollutants Other than HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Major Source of Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Possible
7. Synthetic Minor Source of HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. One or More Emissions Units Subject to NSPS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. One or More Emission Units Subject to NESHAP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Title V Source by EPA Designation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Facility Regulatory Classifications Comment:

B. FACILITY REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of federal, state, and local regulations applicable to the facility as a whole. (Regulations applicable to individual emissions units within the facility are addressed in Subsection III-B of the form.)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Rule 62-4
Rule 62-210
Rule 62-212

C. FACILITY POLLUTANT INFORMATION

This subsection of the Application for Air Permit form allows for the reporting of potential and estimated emissions of selected pollutants on a facility-wide basis. It must be completed for each pollutant for which the applicant proposes to establish a facility-wide emissions cap and for each pollutant for which emissions are not reported at the emissions-unit level.

Facility Pollutant Information: Pollutant 1 of 1

1. Pollutant Emitted: N/A		
2. Estimated Emissions: N/A		(tons/year)
3. Requested Emissions Cap:	(lb/hour)	(tons/year)
4. Basis for Emissions Cap Code:		
5. Facility Pollutant Comment:		

D. FACILITY SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the facility as a whole. (Supplemental information related to individual emissions units within the facility is provided in Subsection III-I of the form.) Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: Appendix C <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: Appendix B <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
6. Supplemental Information for Construction Permit Application: <input checked="" type="checkbox"/> Attached, Document ID: Appendix G <input type="checkbox"/> Not Applicable

Additional Supplemental Requirements for Category I Applications Only

7. List of Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable

<p>9. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>10. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>11. Enhanced Monitoring Plan: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>12. Risk Management Plan Verification:</p> <p><input type="checkbox"/> Plan Submitted to Implementing Agency - Verification Attached, Document ID: _____</p> <p><input type="checkbox"/> Plan to be Submitted to Implementing Agency by Required Date</p> <p><input type="checkbox"/> Not Applicable</p>
<p>13. Compliance Report and Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>14. Compliance Statement (Hard-copy Required) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Control Equipment

A.

1. Description: Reverse Jet Dust Collector
2. Control Device or Method Code: 101

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: Not Applicable		mmBtu/hr
2. Maximum Incineration Rate: Not Applicable	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 36.00 tons per hour of cement		
4. Maximum Production Rate: Not Applicable		
5. Operating Capacity Comment:		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: Continuous	
24 hours/day	7 days/week
52 weeks/year	8,736 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Rule 62-4
Rule 62-210
Rule 62-212

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: <p style="text-align: center;">E1 (Appendix B & C)</p>
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
3. Descriptions of Emissions Points Comprising this Emissions Unit: <p style="text-align: center;">18" x 18" Square Hatch On Top Of Silo.</p>
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <p style="text-align: center;">DCE Volkes Dalamatic Dust Collector, Series DLMV 10/10</p>
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input checked="" type="checkbox"/> P <input type="checkbox"/> R <input type="checkbox"/> V <input type="checkbox"/> W
6. Stack Height: Not Applicable feet
7. Exit Diameter: Not Applicable feet
8. Exit Temperature: 77°F
9. Actual Volumetric Flow Rate: Not Applicable acfm

10. Percent Water Vapor : Not Applicable	%
11. Maximum Dry Standard Flow Rate: Not Applicable	dscfm
12. Nonstack Emission Point Height:	35 feet
13. Emission Point UTM Coordinates: Zone: East (km): North (km):	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1.

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): Pnuematic transfer of cement from cement tanker to cement silo. (Emissions related to tons of cement transferred).	
2. Source Classification Code (SCC): Unknown	
3. SCC Units: Tons transferred.	
4. Maximum Hourly Rate: 36.00 tons/hour	5. Maximum Annual Rate: 314,496.00 tons/year
6. Estimated Annual Activity Factor: Not Applicable	
7. Maximum Percent Sulfur: Not Applicable	8. Maximum Percent Ash: Not Applicable
9. Million Btu per SCC Unit: Not Applicable	
10. Segment Comment:	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 1.

1. Pollutant Emitted: PM (Cement Particulate)		
2. Total Percent Efficiency of Control: 99.9 %		
3. Primary Control Device Code: 101		
4. Secondary Control Device Code: Not Applicable		
5. Potential Emissions:	0.010 lb/hour	0.044 tons/year
6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
7. Range of Estimated Fugitive/Other Emissions: Not Applicable <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year		
8. Emission Factor: 0.27 lb/ton Reference: Table 8.10-1. Uncontrolled Particulate Emission Factors For Concrete Batching. (Appendix D)		
9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5		
10. Calculation of Emissions: $(36.00 \text{ ton/hour}) (0.27 \text{ lb/ton}) (1-0.999) = 0.010 \text{ lb/hour}$ $\{(0.010 \text{ lb/hour}) (24 \text{ hours/day}) (7 \text{ days /week}) (52 \text{ weeks/year})\} \div (2,000 \text{ lb/ton})$ $= 0.044 \text{ tons/year}$ Emission Factor: Refer 8. above and Appendix D. Capture Efficiency: DCE, Inc. Efficiency Statement Attached. (Appendix E)		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: Not Applicable		
2. Future Effective Date of Allowable Emissions: Not Applicable		
3. Requested Allowable Emissions and Units: Not Applicable		
4. Equivalent Allowable Emissions: Not Applicable	lb/hour	tons/year
5. Method of Compliance: Not Applicable		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE; Silo Baghouse			
2. Basis for Allowable Opacity:		[<input checked="" type="checkbox"/>] Rule	[<input type="checkbox"/>] Other
3. Requested Allowable Opacity:			
Normal Conditions:	5 %	Exceptional Conditions:	%
Maximum Period of Excess Opacity Allowed:			min/hour
4. Method of Compliance:			
EPA Method 9			
5. Visible Emissions Comment:			

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE; Diesel Engine			
2. Basis for Allowable Opacity:	<input checked="" type="checkbox"/> Rule	<input type="checkbox"/> Other	
3. Requested Allowable Opacity:	Normal Conditions: 20 %	Exceptional Conditions: %	
	Maximum Period of Excess Opacity Allowed:	min/hour	
4. Method of Compliance:	EPA Method 9		
5. Visible Emissions Comment:			

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	
2. CMS Requirement:	[] Rule [] Other
3. Monitor Information: Manufacturer: Model Number:	Serial Number:
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	
6. Continuous Monitor Comment:	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

-] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

-] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	<input type="checkbox"/>] C	<input type="checkbox"/>] E	<input type="checkbox"/>] Unknown
SO2	<input type="checkbox"/>] C	<input type="checkbox"/>] E	<input type="checkbox"/>] Unknown
NO2	<input type="checkbox"/>] C	<input type="checkbox"/>] E	<input type="checkbox"/>] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment:			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: Appendix B <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: Appendix F <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Supplemental Requirements for Category I Applications Only

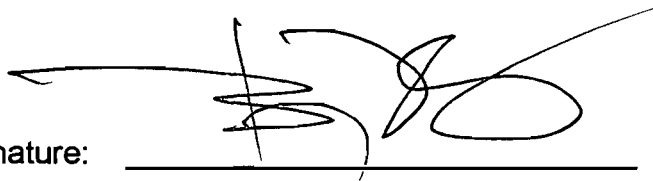
10. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
12. Enhanced Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
14. Acid Rain Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Appendix A - Owner Letter Of Authorization

To Whom It May Concern:

Please let this communication serve as written confirmation that I, C. W. (Bing) Kearney, Jr., am a duly authorized officer of Kearney Development Co., Inc.

Authorized Signature: _____

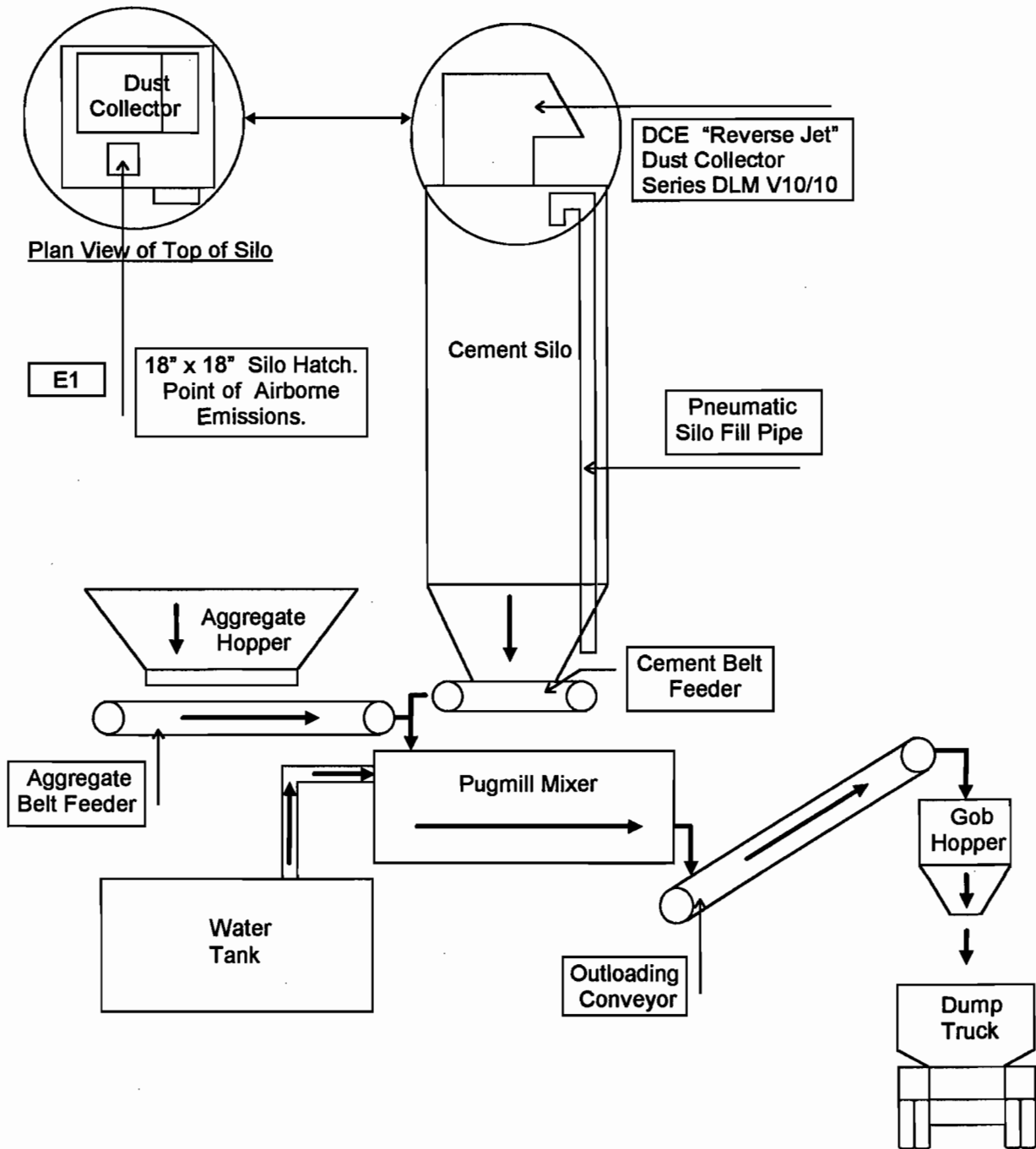
A handwritten signature in black ink, appearing to be 'Bing Kearney', written over a horizontal line. The signature is stylized with loops and a long horizontal stroke extending to the left.

Date: 9/5/95

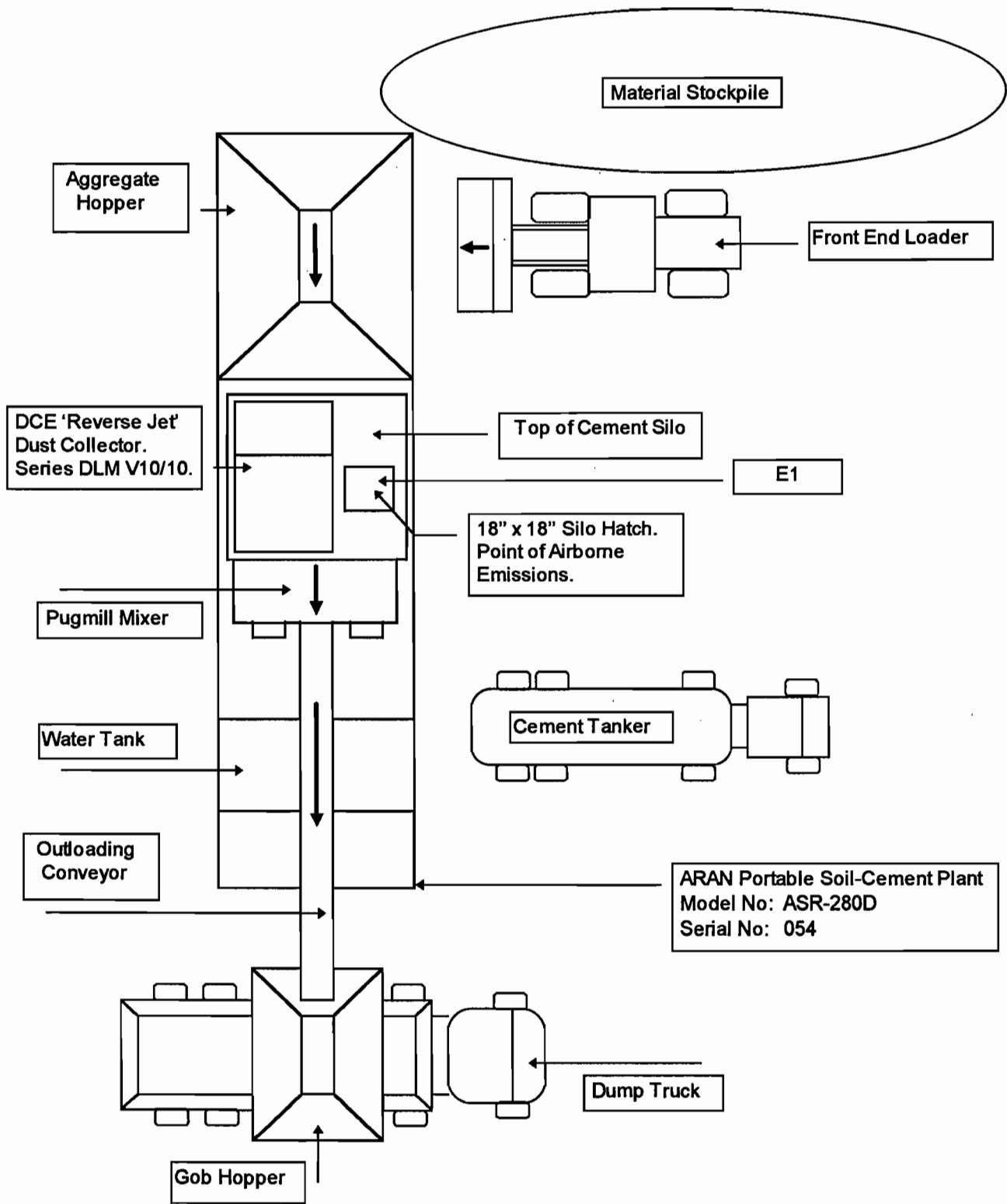
Bing Kearney
Vice President

Appendix B - Process Flow Diagram

ARAN Portable Soil-Cement Plant
Model No: ASR 280-D
Serial No: 054



Appendix C - Typical Facility Plot Plan



Appendix D - Uncontrolled Particulate Emission Factors For Concrete Batching

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TABLE 8.10-1. UNCONTROLLED PARTICULATE EMISSION FACTORS FOR CONCRETE BATCHING

Source	kg/100 of material	lb/ton of material	lb/yd ³ of concrete ^a	Emission Factor Rating
Sand and aggregate transfer to elevated bin ^b	0.014	0.029	0.05	E
Cement unloading to elevated storage silo				
Pneumatic ^c	0.11	0.21	0.07	D
Bucket elevator ^d	0.12	0.24	0.06	E
Wedge hopper loading ^e	0.01	0.02	0.04	E
Truck loading (truck mix) ^f	0.01	0.02	0.04	E
Mixer loading (central mix) ^g	0.02	0.04	0.07	E
Vehicle traffic (unpaved road) ^h	4.5 kg/VKT	16 lb/VMT	0.28	C
Wind erosion from sand and aggregate storage piles ⁱ	3.9 kg/ hectare/day	3.5 lb/ acre/day	0.11	D
Total process emissions (truck mix) ^j	0.05	0.10	0.20	E

^aBased on a typical yd³ weighing 1,818 kg (4,000 lb) and containing 227 kg (500 lb) cement, 564 kg (1,240 lb) sand, 864 kg (1,900 lb) coarse aggregate and 164 kg (360 lb) water.

^bReference 6.

^cFor uncontrolled emissions measured before filter. Based on two tests on pneumatic conveying controlled by a fabric filter.

^dReference 7. From test of mechanical unloading to hopper and subsequent transport of cement by enclosed bucket elevator to elevated bins with fabric socks over bin vent.

^eReference 5. Engineering judgement, based on observations and emission tests of similar controlled sources.

^fFrom Section 11.2.1, with k = 0.8, s = 12, S = 20, W = 20, w = 14, and p = 100. VKT = vehicle kilometers traveled. VMT = vehicle miles traveled.

^gBased on facility producing 23,100 m³/yr (30,000 yd³/yr), with average truck load of 6.2m³ (8 yd³) and plant road length of 161 meters (1/10 mile).

^hFrom Section 8.19.1, for emissions <30 um for inactive storage piles.

ⁱAssumes 1,011 m² (1/4 acre) of sand and aggregate storage at plant with production of 23,100 m³/yr (30,000 yd³/yr).

^jBased on pneumatic conveying of cement at a truck mix facility. Does not include vehicle traffic or wind erosion from storage piles.

Appendix E - D.C.E., Inc. Efficiency Statement



**DUST CONTROL
EQUIPMENT**

DCE, Inc.
11301 Electron Drive
Jeffersonton KENTUCKY 40299-3857

TEL (502) 267-0707
FAX (502) 267-4490

R E C E I V E D

SEP 26 1994

September 22, 1994

KEARNEY DEVELOPMENT
COMPANY, INC.

Mr. Alan Payne
Kearney Development
8621 M.L. King Blvd
Tampa, FL 33610

RE: Dalamatic Efficiency Statement

Alan:

As you requested, here is a general efficiency that is good for all Dalamatic units:

The collector system will provide a 99.9% efficiency on a time-weighted average down to and including 1 micron particle size provided the collector is operated at the air volumes listed in the catalog and maintained as required in the operation manual provided with the collector.

Good Day,

Adrian D. Gleason

Unimaster® dust control units
Dalamatic® and AUTOMATIC™ reverse-jet filters

PRINCIPLE OF OPERATION

Dust laden air is introduced into the Dalamatric through inlet connections near the top of the collector, utilizing downflow design principles. This air is drawn through the filter elements, where the dust is captured on the outer surface of the fabric. The air passes through the fabric and out of the filter as shown in the diagram below.

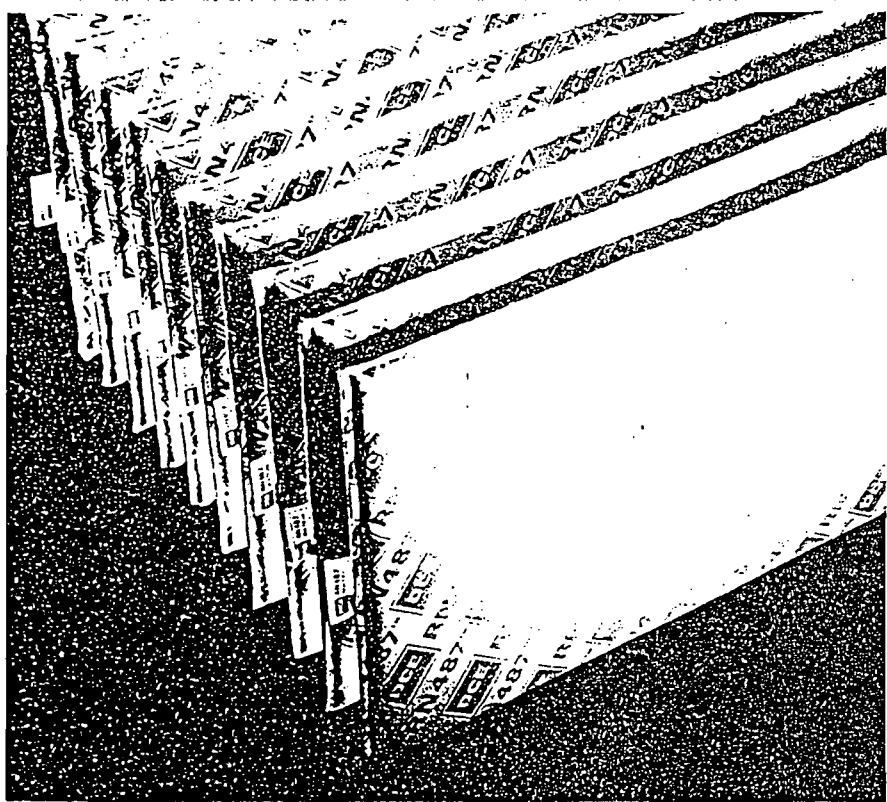
To maintain continuous operation, each envelope is regularly cleaned by a "reverse jet" of compressed air. A short burst of compressed air is released by a pilot actuated diaphragm valve and injected by the jet tube through the insert header into the envelope. This causes a momentary reversal of the air flow, resulting in a brief inflation of the envelope which dislodges the accumulated dust cake. The dust then falls into the hopper, aided by the downward air movement of air inherent in the downflow design. As a consequence of this downflow design, dust re-entrainment and re-deposition are reduced.



DUST CONTROL
EQUIPMENT

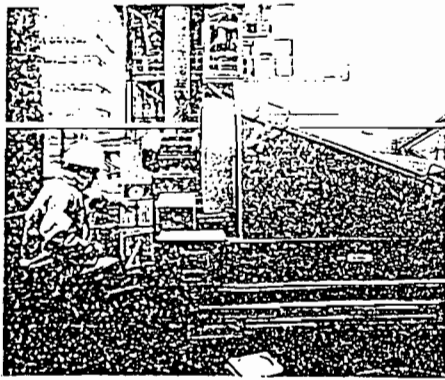
Dalamatic[®]

AUTOMATIC REVERSE JET FABRIC FILTERS



THE WORLD'S NUMBER ONE SELLING
DUST COLLECTOR

DALAMATIC INSERTABLES SERIES DLM-V



Weather protection — Dalmatic DLM-V20/10F Insertable, with weather protection, ventilating aluminium storage silo.

RANGE

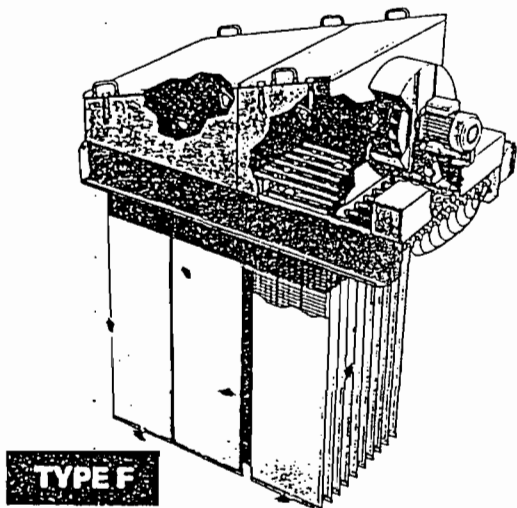
TYPES

The DCE Dalmatic® Insertable Dust Filter — the original *insertable dust filter* — is designed to deal with the heavy burdens and high filtration velocities encountered in the conveying of particulate products. Simply inserted into a silo, it provides continuous filtration of conveying or displaced air and maintains a high collection efficiency at constant system resistance. The range has been continually developed and now consists of over 60 different sizes and types with a wide variety of applications in the handling, processing and storage of bulk materials and powders.

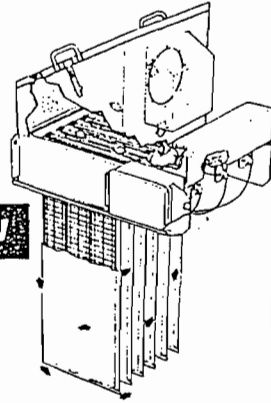
There are four types of Dalmatic Insertable:

- Type B Basic filter for pressure systems located indoors.
- Type H Filter with exit header for connection to a fan or discharge ducting. The filter is weatherproof and suitable for indoor and outdoor application.
- Type W Filter with a weather cowl for pressure systems where the filter is located outdoors or exposed to adverse conditions.
- Type F Weatherproof filter fitted with an integral fan for negative pressure applications. An acoustic diffuser can be supplied as an optional extra.

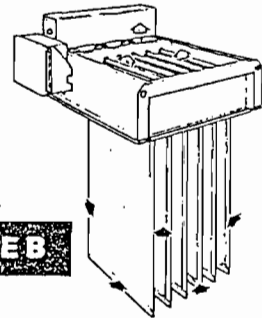
(Mounting positions — All Dalmatic® insertable filters can be mounted either vertically or horizontally to suit application requirements).



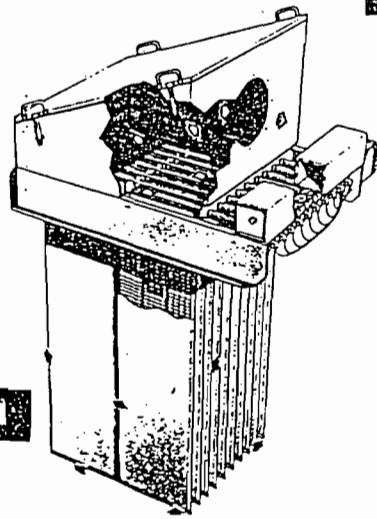
TYPE F



TYPE W



TYPE B



TYPE H

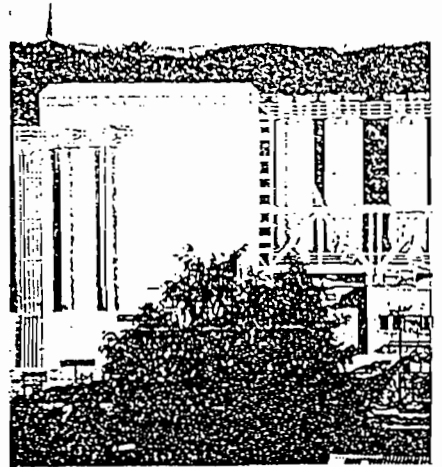
APPLICATIONS

In pneumatic conveying systems, Dalmatic Insertables can be inserted through the top of silos and storage vessels to separate the product from conveying and displaced air preventing product loss and dust nuisance. The collected dust drops directly into the silo. DLM-V Type B and W are normally applied in positive pressure systems, Type F and H are used where a suction fan is needed to overcome system negative pressure. In mechanical conveying systems the dust generated by product loading, transfer and discharge can be controlled by a DLM-V Type F in an enclosure. The collected agglomerated dust is returned directly to the product being conveyed. This saves space, makes ducting and other ancillary equipment unnecessary and avoids the problem of collected dust disposal.

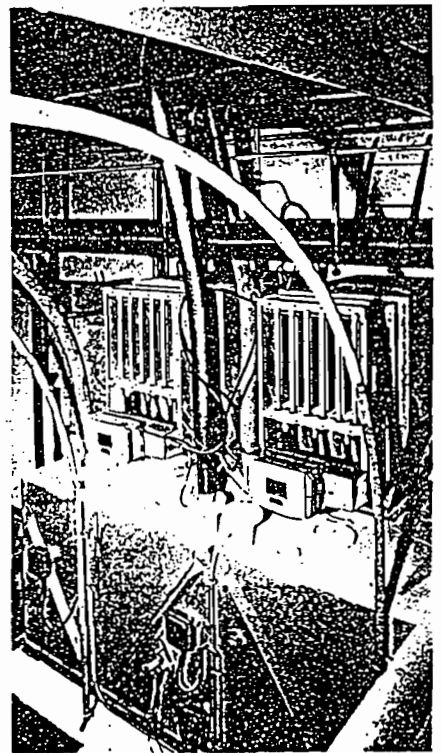
Dalmatic Insertables can also be integrated with process machinery requiring dust control such as fluid bed reactors, mixers, blenders, mills and crushers, or be used to ventilate powder spray booths, automatic bag slitting machines and a wide variety of

DALAMATIC INSERTABLE DLM-V RANGE

Filter size designation	Fabric area	No. of elements	Element length	Element configuration	Integral fan*	Fan motor rating
DLM V4/7	43ft ²	6	0.7m		F1	1hp
DLM V6/10	64ft ²	6	1.0m		F1	1hp
DLM V7/7	75ft ²	10	0.7m		F1 K3	1hp 2hp
DLM V8/7	86ft ²	12	0.7m		F1 K3	1hp 2hp
DLM V9/15	97ft ²	6	1.5m		F1 K3	1hp 2hp
DLM V10/10	108ft ²	10	1.0m		F1 K3	1hp 2hp
DLM V12/10	129ft ²	12	1.0m		K3 K5	2hp 3hp
DLM V14/7	150ft ²	20	0.7m		K3 K5	2hp 3hp
DLM V15/15	161ft ²	10	1.5m		K3 K5	2hp 3hp
DLM V18/15	194ft ²	12	1.5m		K3 K5 F6	2hp 3hp 7½hp
DLM V20/10	215ft ²	20	1.0m		K3 K5 F6	2hp 3hp 7½hp
DLM V21/7	226ft ²	30	0.7m		K3 K5 F6	2hp 3hp 7½hp
DLM V30/10	323ft ²	30	1.0m		K5 F6 F10	3hp 7½hp 7½hp
DLM V30/15	323ft ²	20	1.5m		K5 F6 F10	3hp 7½hp 7½hp
DLM V45/15	484ft ²	30	1.5m		F6 F10 K11	7½hp 7½hp 10hp
DLM V60/15	646ft ²	40	1.5m		K11	10hp



Versatile — Stainless steel Dalamatric insertables handling granulated plastic in West Germany.



Compact — Two Dalamatric DLM-V6-10B insertables installed in a factory producing plastic bottles.

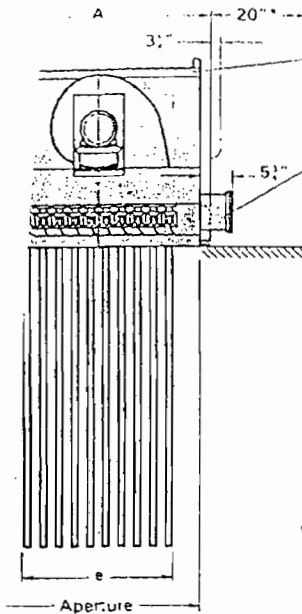
*Integral fans are only fitted to Type F insertables.

Explosion relief — Whenever the dust involved represents an explosion risk, the silo or process equipment concerned should be provided with adequate explosion relief. The

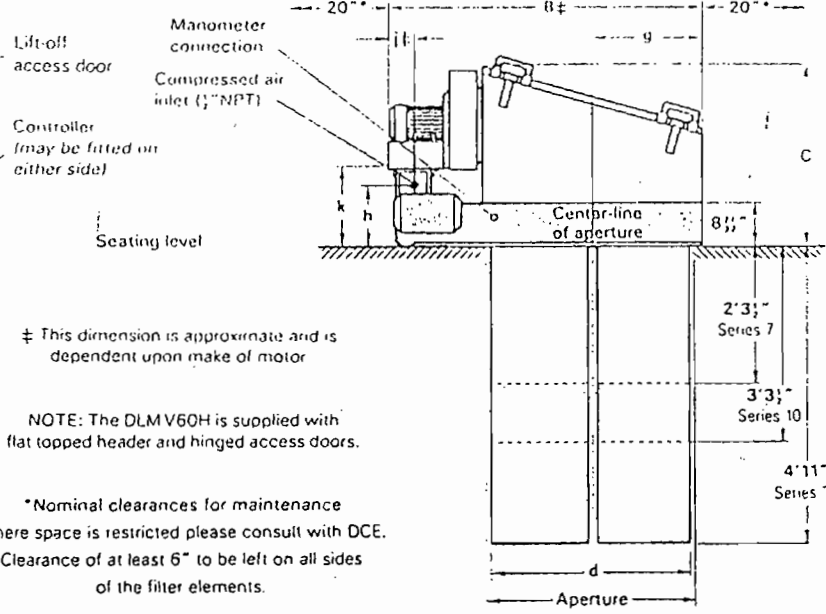


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DUST CONTROL EQUIPMENT



FRONT ELEVATION



SIDE ELEVATION

Lift-off access door
 Controller (may be fitted on either side)
 Seating level
 Manometer connection
 Compressed air inlet (1/2" NPT)

± This dimension is approximate and is dependent upon make of motor

NOTE: The DLMV60H is supplied with flat topped header and hinged access doors.

*Nominal clearances for maintenance
 Where space is restricted please consult with DCE.
 Clearance of at least 6" to be left on all sides of the filter elements.

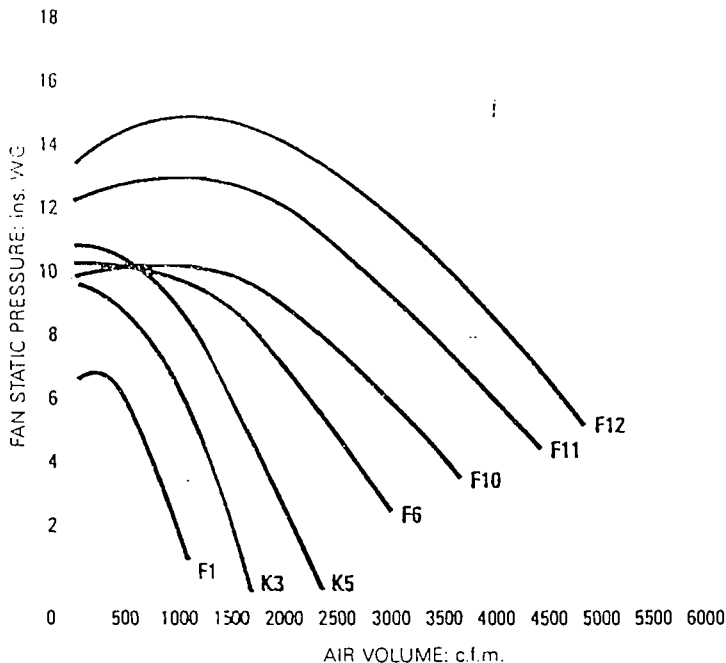
Dalomatic insertable filter with intergral fan

Model DLMV30/15F illustrated, broken lines representing models DLMV14/7F & DLMV20/10F
 Suitable for inside and outside locations.

Fabric area ft ²	OVERALL DIMENSIONS											Fan	Motor rating	Approx net weight
	A	B±	C	d	e	f*	g	h	j±	k				
43	2'3 1/2"	3'7 1/2"	2'8 1/2"	19"	18 1/2"	3'9 1/2"	12 1/2"	11 1/2"	9 1/2"	14 1/2"	F1	1hp	353 lb	
64	2'3 1/2"	3'7 1/2"	2'8 1/2"	19"	18 1/2"	4'9 1/2"	12 1/2"	11 1/2"	9 1/2"	14 1/2"	F1	1hp	375 lb	
75	3'7 1/2"	3'7 1/2"	2'10"	19"	2'8 1/2"	3'9 1/2"	12 1/2"	11 1/2"	9 1/2"	14 1/2"	F1	1hp	496 lb	
		3'7 1/2"									K3	2hp	518 lb	
86	2'3 1/2"	5'4"	2'11 1/2"	3'3 1/2"	18 1/2"	3'9 1/2"	22 1/2"	12 1/2"	6 1/2"	15 1/2"	F1	1hp	463 lb	
		5'4"									K3	2hp	551 lb	
97	2'3 1/2"	3'7 1/2"	2'8 1/2"	19"	18 1/2"	6'5"	12 1/2"	11 1/2"	9 1/2"	14 1/2"	F1	1hp	397 lb	
10F	100	3'7 1/2"	3'7 1/2"	2'10"	19"	2'8 1/2"	4'9 1/2"	12 1/2"	11 1/2"	9 1/2"	K3	2hp	419 lb	
10F	129	2'3 1/2"	5'4"	2'11 1/2"	3'3 1/2"	18 1/2"	4'9 1/2"	22 1/2"	12 1/2"	6 1/2"	F1	1hp	540 lb	
		5'4"									K3	2hp	562 lb	
7F	150	3'7 1/2"	5'4"	2'11 1/2"	3'3 1/2"	2'8 1/2"	3'9 1/2"	22 1/2"	12 1/2"	6 1/2"	K3	2hp	595 lb	
			5'4"								K5	3hp	617 lb	
1/15F	161	3'7 1/2"	3'7 1/2"	2'10"	19"	2'8 1/2"	6'5"	12 1/2"	11 1/2"	9 1/2"	K3	2hp	816 lb	
			3'7 1/2"								K5	3hp	838 lb	
1/15F	194	2'3 1/2"	5'4"	2'11 1/2"	3'3 1/2"	18 1/2"	6'5"	22 1/2"	12 1/2"	6 1/2"	F1	1hp	606 lb	
			5'4"								K3	2hp	628 lb	
			3'0 1/2"								K5	3hp	650 lb	
			5'4"								F6	7 1/2hp	672 lb	
1/10F	215	3'7 1/2"	5'4"	2'11 1/2"	3'3 1/2"	2'8 1/2"	4'9 1/2"	22 1/2"	12 1/2"	6 1/2"	F1	1hp	705 lb	
			5'4"								K3	2hp	893 lb	
			3'0 1/2"								K5	3hp	915 lb	
			5'4"								F6	7 1/2hp	948 lb	
1/7F	226	3'7 1/2"	7'3 1/2"	3'6"	5'3 1/2"	2'8 1/2"	3'9 1/2"	2'10 1/2"	12 1/2"	6 1/2"	K3	2hp	1091 lb	
			7'3 1/2"								K5	3hp	1113 lb	
			7'3 1/2"								F6	7 1/2hp	1146 lb	
10/10F	323	3'7 1/2"	7'3 1/2"	3'6"	5'3 1/2"	2'8 1/2"	4'9 1/2"	2'10 1/2"	12 1/2"	6 1/2"	K3	2hp	1213 lb	
			7'3 1/2"								F6	7 1/2hp	1246 lb	
			7'7 1/2"								F10	7 1/2hp	1301 lb	
30/15F	323	3'7 1/2"	5'4"	2'11 1/2"	3'3 1/2"	2'8 1/2"	6'5"	22 1/2"	12 1/2"	6 1/2"	K5	3hp	1025 lb	
			5'4"								F6	7 1/2hp	1058 lb	
			5'8 1/2"								F10	7 1/2hp	1113 lb	
45/15F	484	3'7 1/2"	7'3 1/2"	3'6"	5'3 1/2"	2'8 1/2"	6'5"	2'10 1/2"	12 1/2"	6 1/2"	F6	7 1/2hp	1378 lb	
			7'7 1/2"								F10	7 1/2hp	1433 lb	
			7'7 1/2"								F11	10hp	1444 lb	
60/15F	646	3'7 1/2"	9'4 1/2"	3'7"	6'11 1/2"	2'8 1/2"	7'3"	3'8 1/2"	12 1/2"	9 1/2"	F11	10hp	1962 lb	
			9'9 1/2"								F12	15hp	2061 lb	



**DUST CONTROL
EQUIPMENT**



To select the most suitable fan for a given application:

- 1 Determine the air volume flow (c.f.m.) needed to give effective venting and dust control.
- 2 Estimate the pressure or suction (ins. W.G.) in the housing in which the dust collector is inserted.
- 3 Assess the operational pressure drop (ins. W.G.) across the clean side and dirty side of the filtering element — usually between 2" to 4" W.G.
- 4 The sum of 2 and 3 gives the pressure (ins. W.G.) required for fan selection purposes.
- 5 Consult graph for fan performances available.

Fan performance curves

COMPRESSED AIR REQUIREMENTS

Filter type	Working compressed air pressure ^a	Atmospheric air volume — F.A.D. ^b	Pulse duration
		at 25 sec. intervals ^c	
DLM V4/7, V6/10 and V9/15	65 psig	2.3 cfm	200 millise.
DLM V7/7, V10/10 and V15/15	65 psig	2.8 cfm	200 millise.
DLM V8/7, V12/10 and V18/15	90 psig	4.2 cfm	200 millise.
DLM V14/7 and V20/10 (5 valve)	90 psig	5.0 cfm	200 millise.
		at 12 sec. intervals ^c	
DLM V20/10 (10 valve)	65 psig	3.6 cfm	60 millise.
DLM V21/7 and V30/10	75 psig	4.6 cfm	60 millise.
DLM V30/15	65 psig	5.1 cfm	110 millise.
DLM V45/15	75 psig	6.6 cfm	110 millise.
DLM V60/15	90 psig	6.6 cfm	110 millise.

^aNormal operating pressure. ^bRecommended atmospheric air volume of clean, dry compressed air.

^cRecommended initial settings; these may be varied with experience.

ELECTRICAL REQUIREMENTS

Filters up to DLM V20/10*: DS 3- or 5-way controller

Filters from DLM V20/10* upwards: DS 10-way controller

Voltage input: 110, 200, 220 or 240V. (±10%) A.C. two wire 50-60 Hz (Incremental tappings on transformer)

Connection: Line-line or line-neutral

Fan motor (if fitted): To suit local voltage

*The DLM V20/10 can be supplied with either DS 5- or 10-way controller

DESIGN LIMITS (standard equipment)

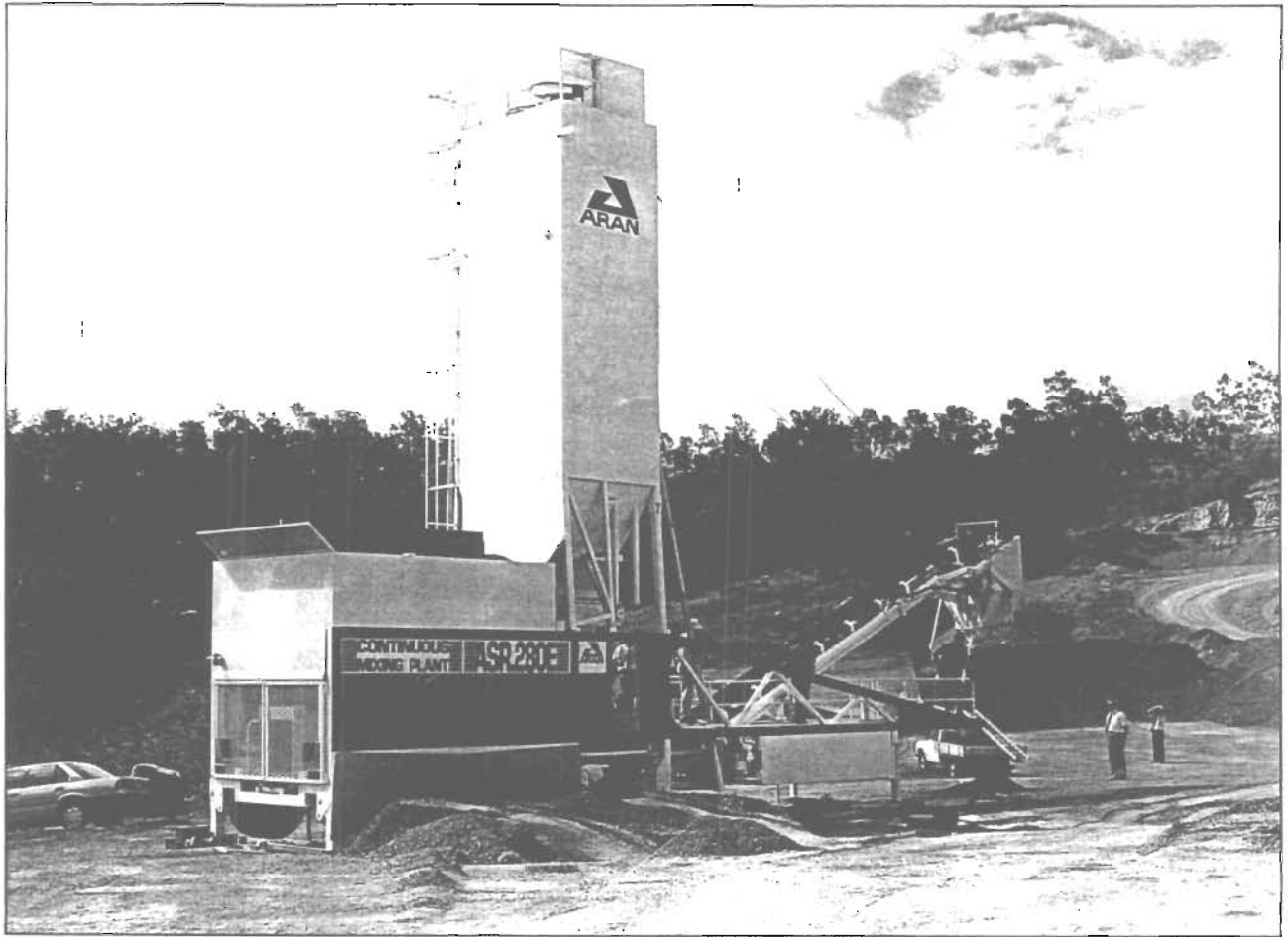
Temperature range (alternatives according to type of sealer used): (1) 14°F to 140°F; (2) 14°F to 400°F (not type F)


Pressure limits: (a) Types B, W & H: 16" W.G. For positive pressures please refer to DCE;

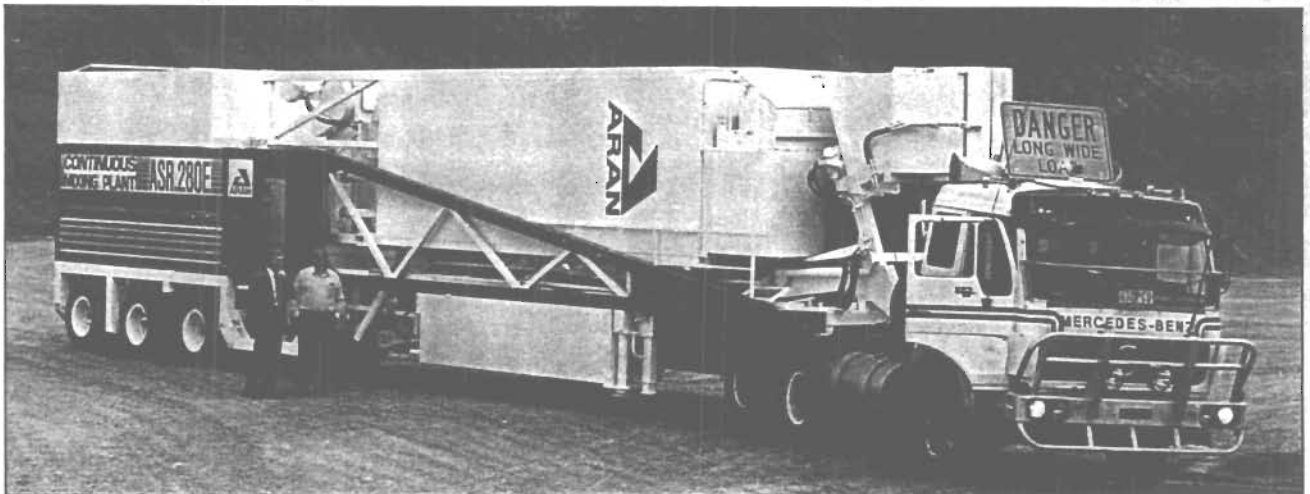
(b) Type F: as fan performance curves from shut-off to ambient pressure

Dimension tolerances: ± 3/16" on main dimensions; ± 1/16" on detail dimensions

Appendix G - ARAN Portable Pugmill Information



CONTINUOUS MIXING PLANT  ARAN.
NO ONE DOES IT BETTER



ARAN ASR SERIES CONTINUOUS MIXING TECHNOLOGY.

New Standards of Performance, Accuracy and Convenience

Aran has no peers when it comes to continuous mixing technology for a diverse range of construction materials. Designing and building the best mobile continuous mixers is our business, not a sideline. Logical machine layout leads to uniform, accurate product irrespective of whether machines mix non-stop, or on a truck by truck basis.

The experts have come to Aran for introduction of innovative new materials such as roller compacted concrete (RCC) for dams and pavements. No-one does it better.

Mix crushed stone aggregate, sand, ridge gravels, soil, loam, waste sludge, mineral ores;

With cement, lime, flyash, water, admixture, emulsified bitumen, chemicals, chopped fibre.

SUPERIOR PACKAGING Long recognised as leaders in the use of space, ARAN ASR plants optimise ingredient storage capacity with performance and ease of operation.

SELF CONTAINED Integral diesel engines and full hydrostatic drives. No need for generators, cranes, or even concrete foundations.

RAPID RELOCATION Unmatched relocation convenience. ARAN machines travel at highway speeds and can be set up in a few hours. Machine levelling, silo elevation and conveyor positioning are all hydraulic.

CONSISTENT ACCURACY ARAN machines are respected for their accurate, consistent and repeatable feed metering. Careful attention to function has produced innovative but simple feeders. ARAN deals with accuracy at the point of metering rather than by employing unnecessary and complicated electronic error compensation controls. Construction Authorities have adjusted their specifications to take advantage of the excellent uniformity offered by ARAN's ABFC Series cement metering feeders.

INTENSE MIXING ARAN high intensity mixers have more blades and run faster to mix thoroughly and quickly. Compare the power available for each machine size. Even with more difficult materials, ARAN machines are out in front with mix capability.

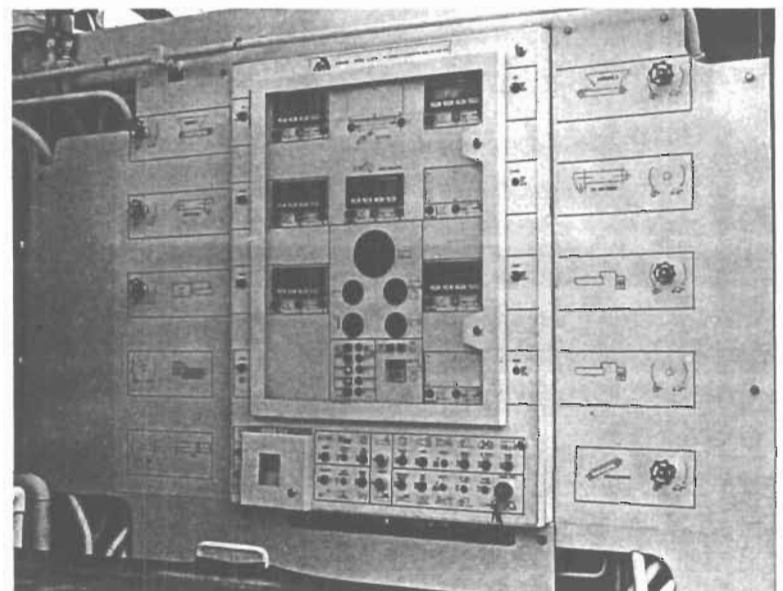
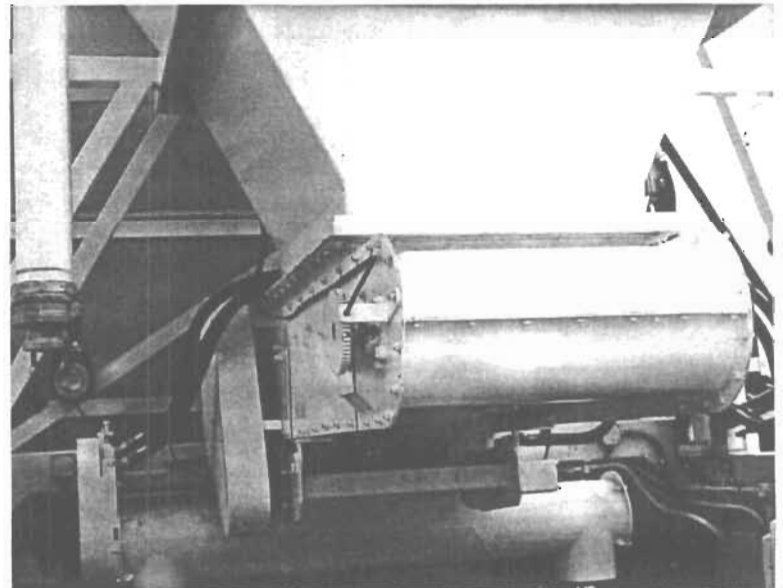
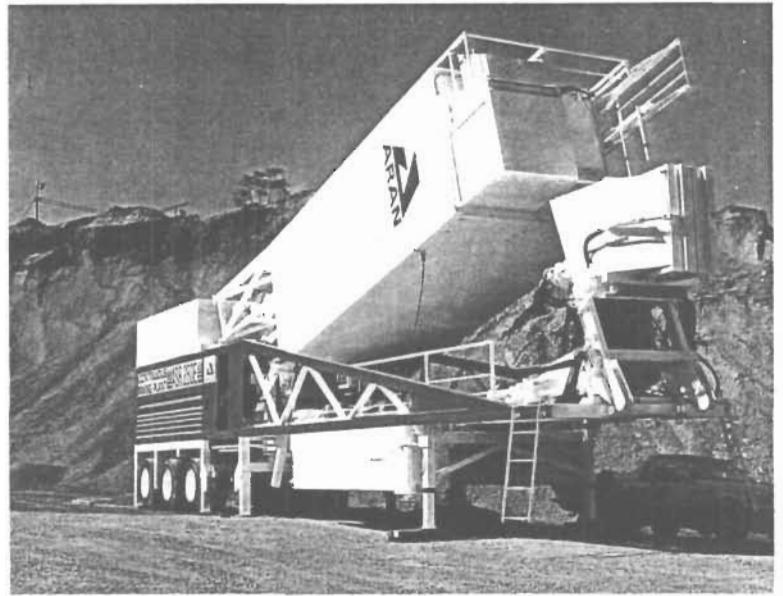
MODERN BUT NOT COMPLEX Mobile machines are used in very remote locations. Component selection is based on service ability and reliability. ARAN ASR Series machines are an elegant expression of functional simplicity.

CONTROL FEATURES Because feed control on ARAN plants is inherently very stable, ingredient proportions are manually set, and monitored with sensitive but robust digital instruments. Rate and cumulative totals are indicated. Alarms and auto-shut down can operate from pre-set feed tolerances. Mixed product weighing and moisture monitoring available. The clear and orderly control panel keeps the operator informed.

OPTION PROGRAMME The ARAN specialist range of mixing machines allows each owner to tailor his machine to actual needs.

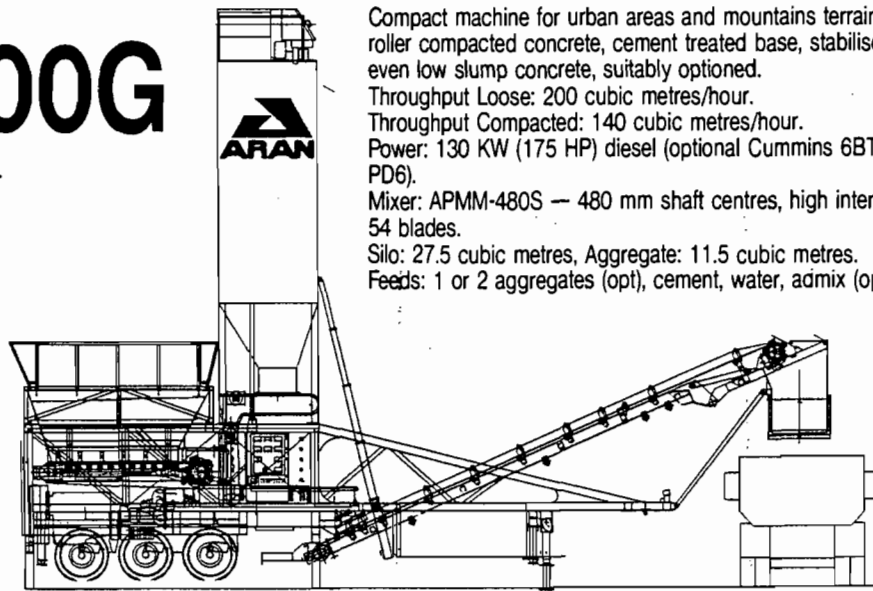
Over fifty optional features cater for different numbers of ingredient materials, more extensive monitoring, differing environmental requirements, and even operator comfort.

QUALITY WHERE IT COUNTS ARAN machines are built to a formulated quality management programme using first class internationally available components. Premium two pack epoxy/urethane paint systems keep ARAN plants looking young.



ASR-200G

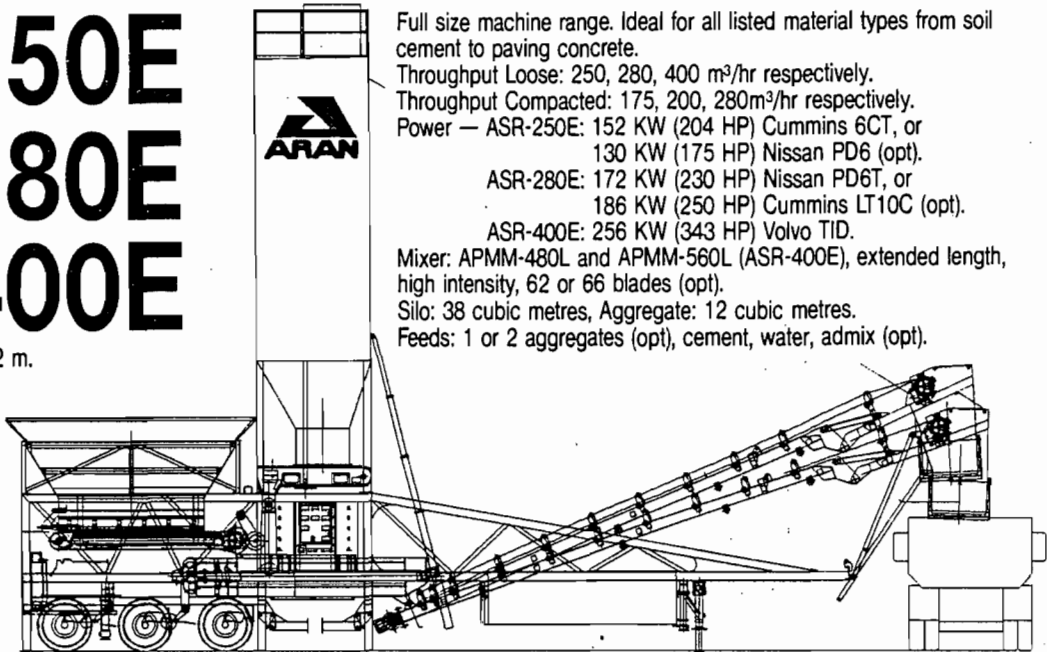
Length overall travelling: 12.534 m.
Height overall travelling: 3.8 m.
Width overall travelling: 2.95 m.



Compact machine for urban areas and mountains terrain. Ideal for roller compacted concrete, cement treated base, stabilised base and even low slump concrete, suitably optioned.
Throughput Loose: 200 cubic metres/hour.
Throughput Compacted: 140 cubic metres/hour.
Power: 130 KW (175 HP) diesel (optional Cummins 6BTA/Nissan PD6).
Mixer: APMM-480S — 480 mm shaft centres, high intensity compact, 54 blades.
Silo: 27.5 cubic metres, Aggregate: 11.5 cubic metres.
Feeds: 1 or 2 aggregates (opt), cement, water, admix (opt).

ASR-250E ASR-280E ASR-400E

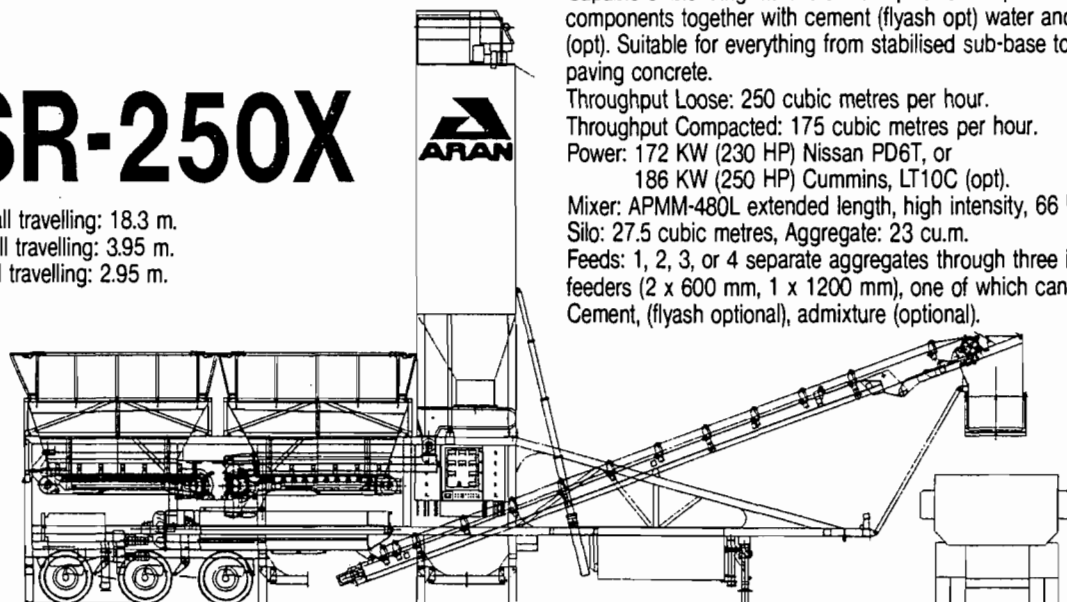
Length overall travelling: 17.122 m.
Height overall travelling: 4.1 m.
Width overall travelling: 3.05 m.



Full size machine range. Ideal for all listed material types from soil cement to paving concrete.
Throughput Loose: 250, 280, 400 m³/hr respectively.
Throughput Compacted: 175, 200, 280m³/hr respectively.
Power — ASR-250E: 152 KW (204 HP) Cummins 6CT, or 130 KW (175 HP) Nissan PD6 (opt).
ASR-280E: 172 KW (230 HP) Nissan PD6T, or 186 KW (250 HP) Cummins LT10C (opt).
ASR-400E: 256 KW (343 HP) Volvo T1D.
Mixer: APMM-480L and APMM-560L (ASR-400E), extended length, high intensity, 62 or 66 blades (opt).
Silo: 38 cubic metres, Aggregate: 12 cubic metres.
Feeds: 1 or 2 aggregates (opt), cement, water, admix (opt).

ASR-250X

Length overall travelling: 18.3 m.
Height overall travelling: 3.95 m.
Width overall travelling: 2.95 m.



Capable of blending materials with up to four separate aggregate/sand components together with cement (flyash opt) water and admixture (opt). Suitable for everything from stabilised sub-base to high class paving concrete.
Throughput Loose: 250 cubic metres per hour.
Throughput Compacted: 175 cubic metres per hour.
Power: 172 KW (230 HP) Nissan PD6T, or 186 KW (250 HP) Cummins, LT10C (opt).
Mixer: APMM-480L extended length, high intensity, 66 blades.
Silo: 27.5 cubic metres, Aggregate: 23 cu.m.
Feeds: 1, 2, 3, or 4 separate aggregates through three independent feeders (2 x 600 mm, 1 x 1200 mm), one of which can be divided.
Cement, (flyash optional), admixture (optional).

The power demand of twin shaft continuous mixers varies greatly with material characteristics. Fine local materials with significant clay content require up to three times as much power as resilient crushed rock. ARAN machines are rated for average road base construction materials. Capacities in excess of those quoted may be achieved with some materials and reduced capacities with others. Lesser powered mixers from other sources usually suffer severe throughput loss with fine materials.

VERSATILE

A True Multi-Material Mixing System

Because of their mobility and wide international use, ARAN machines encounter many different construction materials. From experience, ARAN designers have considered the unique needs of each different material in the latest generation of ASR Series mixing plants.

It is comforting to know that ARAN machines have already excelled on thousands of projects, each with material, climate and specification differences.

When new material technologies such as roller compacted concrete, have been introduced, world renowned experts have recognised ARAN as the superior machine able to deliver the right results from the beginning.

With the correct options, ASR Series machines can mix:

- Mass Concrete for Foundations
- Paving Concrete
- Porous Concrete
- Roller Compacted Concrete Pavement
- Roller Compacted Concrete for dams
- Cement Treated Base
- Soil Cement
- Lime Stabilised Base
- Fibre Reinforced Soil
- Toxic Waste for Solidification
- Lime Precoated Aggregates
- Bitumen Precoated Aggregates
- Bitumen Emulsion Cold Mix
- Gold Bearing Ores for Leaching

PAVING CONCRETE



ROLLER COMPACTED CONCRETE



STABILISED BASE



SOIL CEMENT - CEMENT TREATED BASE



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COLD MIX ASPHALT-BITUMEN STABILIZATION



KEARNEY DEVELOPMENT CO., INC.

SITE DEVELOPMENT SINCE 1956

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UNDERGROUND UTILITY	CUC029824
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